

FIGURE 1

AGGCGGGCAGCAGCTGCAGGCTGACCTTGCAGCTTGGCGGAATGGACTGGCCTCACAACCTGCTGTTTCTT
CTTACCATTTCCATCTTCCTGGGGCTGGGCCAGCCAGGAGCCCCAAAAGCAAGAGGAAGGGGCAAGGGCG
GCCTGGGCCCCTGGCCCCTGGCCCTCACCAGGTGCCACTGGACCTGGTGTACGGATGAAACCGTATGCCC
GCATGGAGGAGTATGAGAGGAACATCGAGGAGATGGTGGCCCAGCTGAGGAACAGCTCAGAGCTGGCCCAG
AGAAAGTGTGAGGTCAACTTGCAGCTGTGGATGTCCAACAAGAGGAGCCTGTCTCCCTGGGGCTACAGCAT
CAACCACGACCCAGCCGTATCCCCGTGGACCTGCCGGAGGCACGGTGCCTGTGTCTGGGCTGTGTGAACC
CCTTCACCATGCAGGAGGACCGCAGCATGGTGAGCGTGCCGGTGTTTCAGCCAGGTTCTGTGCGCCGCCGC
CTCTGCCCCGCCACCGCCCCGCACAGGGCCTTGCCGCCAGCGCGCAGTCATGGAGACCATCGCTGTGGGCTG
CACCTGCATCTTCTGAATCACCTGGCCCAGAAGCCAGGCCAGCCCCGAGACCATCCTCCTTGACCTTT
GTGCCAAGAAAGGCCTATGAAAAGTAAACACTGACTTTTGAAGCAAG

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2/71

FIGURE 2

MDWPHNLLFLLTISIFLGLGQPRSPKSKRKGQGRPGPLAPGPHQVPLDLVSRMKPYARMEEYERNIEEMVA
QLRNSSELAQRKCEVNLQLWMSNKRSLSPWGYSINHDPSRIPVDLPEARCLCLGCVNPFTMQEDRSMVSV
VFSQVPVRRRLCPPPPRTGPCRQRAVMETIAVGCTCIF

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FIGURE 3

GCCAGGTGTGCAGGCCGCTCCAAGCCCAGCCTGCCCCGCTGCCGCCACCATGACGCTCCTCCCCGGCCTCC
TGTTTCTGACCTGGCTGCACACATGCCTGGCCCACCATGACCCCTCCCTCAGGGGGCACCCCCACAGTCAC
GGTACCCCACACTGCTACTCGGCTGAGGAACTGCCCCCTCGGCCAGGCCCCCCCCACACCTGCTGGCTCGAGG
TGCCAAGTGGGGGCAGGCTTTGCCTGTAGCCCTGGTGTCCAGCCTGGAGGCAGCAAGCCACAGGGGGAGGC
ACGAGAGGCCCTCAGCTACGACCCAGTGCCCGGTGCTGCGGCCGGAGGAGGTGTTGGAGGCAGACACCCAC
CAGCGCTCCATCTCACCCCTGGAGATACCGTGTGGACACGGATGAGGACCGCTATCCACAGAAGCTGGCCTT
CGCCGAGTGCCTGTGCAGAGGCTGTATCGATGCACGGACGGGCCGCGAGACAGCTGCGCTCAACTCCGTGC
GGCTGCTCCAGAGCCTGCTGGTGTGCGCCGCCGCCCTGCTCCCGCGACGGCTCGGGGCTCCCCACACCT
GGGGCCTTTGCCTTCCACACCGAGTTCATCCACGTCCCCGTGCGCTGCACCTGCGTGCTGCCCCGTTTCACT
GTGACCGCCGAGGCCGTGGGGCCCCCTAGACTGGACACGTGTGCTCCCCAGAGGGCACCCCCCTATTTATGTG
TATTTATTGTTATTTATATGCCTCCCCCAACTACCCCTGGGGTCTGGGCATTCCCCGTGTCTGGAGGAC
AGCCCCCACTGTTCTCCTCATCTCCAGCCTCAGTAGTTGGGGGTAGAAGGAGCTCAGCACCTCTTCCAGC
CCTTAAAGCTGCAGAAAAGGTGTACACGGCTGCCTGTACCTTGGCTCCCTGTCTGCTCCCGGCTTCCCT
TACCCTATCACTGGCCTCAGGCCCCGAGGCTGCCTCTTCCCAACCTCCTTGGAAGTACCCCTGTTTCTTA
AACAATTATTTAAGTGACGTGTATTATTAACTGATGAACACATCCCCAAA

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FIGURE 4

MTLLPGLLFLTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQALPVALVSSLE
AASHRGRHERPSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDYPQKLAFAECLCRGCIDARTGRE
TAALNSVRLQLSLLVLRRRPCSRDGSGGLTPGAFHTEFIHVPVGCTCVLPRSV

Signal peptide:	Amino acids 1-18
Tyrosine kinase phosphorylation site:	Amino acids 112-121
N-myristoylation sites:	Amino acids 32-38;55-61;133-139
Leucine zipper pattern:	Amino acids 3-25
Homologous region to IL-17:	Amino acids 99-195

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FIGURE 5

GGCTTGCTGAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAGTCA
GTGCCCCGACTTGTGACTGAGTGTGCAGTGCCCGAGCATGTACCAGGTCAGTGCAGAGGGCTGCCTGAGGGCT
GTGCTGAGAGGGAGAGGAGCAGAGATGCTGCTGAGGGTGGAGGGAGGCCAAGCTGCCAGGTTTGGGGCTGG
GGGCAAGTGAGAGTGAGAACTGGGATCCCAGGGGGAGGGTGCAGATGAGGGAGCGACCCAGATTAGGTGA
GGACAGTTCTCTCATTAGCCTTTTCCTACAGGTGGTTGCATTCTTGGCAATGGTCATGGGAACCCACACCT
ACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACT
GTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCCAACCGCCACCCAGAGTCCTGTAGGGCCAGTGAAGATGGA
CCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTTGAACCGGCTCCCCCAGGA
CCTGTACCACGCCCCTTGCCTGTGCCCCGACTGCGTCAGCCTACAGACAGGCTCCACATGGACCCCCGGG
GCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTTCTACAGGCGGCCATGCCATGGCGAGAAGGGCACC
CACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTCCTTAGCTTGTGTGTGTGTGCGGCCCCGTGT
GATGGGCTAGCCGACCTGCTGGAGGCTGGTCCCTTTTTGGGAAACCTGGAGCCAGGTGTACAACCACTTG
CCATGAAGGGCCAGGATGCCAGATGCTTGGCCCCCTGTGAAGTGCTGTCTGGAGCAGCAGGATCCCGGGAC
AGGATGGGGGGCTTTGGGGAAAACCTGCACTTCTGCACATTTTGAAAAGAGCAGCTGCTGCTTAGGGCCGC
CGGAAGCTGGTGTCTGTCAATTTCTCTCAGGAAAGGTTTTCAAAGTTCTGCCCATTTCTGGAGGCCACCA
CTCCTGTCTCTTCTCTTTTCCCATCCCCCTGCTACCCTGGCCCAGCACAGGCACTTTCTAGATATTTCCCC
CTTGCTGGAGAAGAAAGAGCCCCTGGTTTTATTGTGTTGTTTACTCATCACTCAGTGAGCATCTACTTTGG
GTGCATTCTAGTGTAGTTACTAGTCTTTTGACATGGATGATTCTGAGGAGGAAGCTGTTATTGAATGTATA
GAGATTTATCCAAATAAATATCTTTATTTAAAAATGAAAAA

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FIGURE 6

MRERPRLGEDSSLISLFLQVVAFLAMVMGTHYSHWPSCCPSKGQDTSEELLRWSTVPVPPLEPARPNRHP
ESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHCVSLQTGSHMDPRGNSELLYHNQTVFYR
RPCHGEKGTGTHKGYCLERRLYRVSLACVCVRPRVMG

Signal peptide:

Amino acids 1-32

N-glycosylation site:

Amino acids 136-140

Tyrosine kinase phosphorylation site:

Amino acids 127-135

N-myristoylation sites:

Amino acids 44-50;150-156

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FIGURE 7

ATGCTGGTAGCCGGCTTCCTGCTGGCGCTGCCGCCGAGCTGGGCGCGGGCGCCCCAGGGCGGGCAGGCG
CCCCGCGCGGCCGCGGGGCTGCGCGGACCGGCCGAGGAGCTACTGGAGCAGCTGTACGGGCGCCTGGCGG
CCGGCGTGCTCAGTGCCTTCCACCACACGCTGCAGCTGGGGCCGCGTGAGCAGGCGCGCAACGCGAGCTGC
CCGGCAGGGGGCAGGCCCCGGCGACCGCCGCTTCCGGCCGCCCCACCAACCTGCGCAGCGTGTGCCCCGGGC
CTACAGAATCTCCTACGACCCGGCGAGGTACCCAGGTACCTGCCTGAAGCCTACTGCCTGTGCCGGGGCT
GCCTGACCGGGCTGTTTCGGCGAGGAGGACGTGCGCTTCCGCAGCGCCCCGTGTCTACATGCCCACCGTCGTC
CTGCGCCGCACCCCCGCTGCGCCGGCGGCCGTTCCGTCTACACCGAGGCCTACGTCACCATCCCCGTGGG
CTGCACCTGCGTCCCCGAGCCGGAGAAGGACGCAGACAGCATCAACTCCAGCATCGACAAACAGGGCGCCA
AGCTCCTGCTGGGCCCCAACGACGCGCCCGCTGGCCCCCTGAGGCCGGTCCTGCCCCGGGAGGTCTCCCCGG
CCCGCATCCCAGGGCGCCCAAGCTGGAGCCGCTGGAGGGCTCGGTGGCGACCTCTGAAGAGAGTGCACC
GAGCAAACCAAGTGCCGGAGCACACGCGCCGCTTTCCATGGAGACTCGTAAGCAGCTTCATCTGACACGG
GCATCCCTGGCTTGCTTTTAGCTACAAGCAAGCAGCGTGGCTGGAAGCTGATGGGAAACGACCCGGCACGG
GCATCCTGTGTGCGCCCCGCATGGAGGGTTTGGAAAAGTTCACGGAGGCTCCCTGAGGAGCCTCTCAGATC
GGCTGCTGCGGGTGACGGGCGTGACTCACCGCTGGGTGCTTGCCAAAGAGATAGGGACGCATATGCTTTTT
AAAGCAATCTAAAAATAATAATAAGTATAGCGACTATATACCTACTTTTAAATCAACTGTTTTGAATAGA
GGCAGAGCTATTTTATATTATCAAATGAGAGCTACTCTGTTACATTTCTTAACATATAAACATCGTTTTTT
ACTTCTTCTGGTAGAATTTTTTAAAGCATAATTGGAATCCTTGGATAAATTTTGTAGCTGGTACACTCTGG
CCTGGGTCTCTGAATTCAGCCTGTACCCGATGGCTGACTGATGAAATGGACACGTCTCATCTGACCCACTC
TTCCTTCCACTGAAGGTCTTCACGGGCCCTCCAGGTGGACCAAAGGGATGCACAGGCGGCTCGCATGCCCCA
GGGCCAGCTAAGAGTTCCAAAGATCTCAGATTTGGTTTTAGTCATGAATACATAAACAGTCTCAAACCTCGC
ACAATTTTTTCCCCCTTTTGAAAGCCACTGGGGCCAATTTGTGGTTAAGAGGTGGTGAGATAAGAAGTGGA
ACGTGACATCTTTGCCAGTTGTCAGAAGAATCCAAGCAGGTATTGGCTTAGTTGTAAGGGCTTTAGGATCA
GGCTGAATATGAGGACAAAGTGGGCCACGTTAGCATCTGCAGAGATCAATCTGGAGGCTTCTGTTTTCTGCA
TTCTGCCACGAGAGCTAGGTCCTTGATCTTTTCTTTAGATTGAAAGTCTGTCTCTGAACACAATTATTTGT
AAAAGTTAGTAGTTCTTTTTTAAATCATTAAGAGGCTTGCTGAAGGAT

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FIGURE 8

MLVAGFLLALPPSWAAGAPRAGRPARPRGCADRPEELLEQLYGRLAAGVLSAFHHTLQLGPREQARNASC
PAGGRPGDRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGCEEDVRFRSAPVYMPTVV
LR RTPACAGGRSVYTEAYVTIPVGCTCVPEPEKDADSINSSIDKQGAKLLLGPNDAPAGP

Signal peptide:	Amino acids 1-15
N-glycosylation sites:	Amino acids 68-72;181-185
Tyrosine kinase phosphorylation site:	Amino acids 97-106
N-myristoylation sites:	Amino acids 17-23;49-55;74-80; 118-124
Amidation site:	Amino acids 21-25

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9/71

FIGURE 9

CAACTGCACCTCGGTTCTATCGATAGCCACCAGCGCAACATGACAGTGAAGACCCTGCATGGCCCAGCCAT
GGTCAAGTACTTGCTGCTGTCGATATTGGGGCTTGCCTTTCTGAGTGAGGCGGCAGCTCGGAAAATCCCCA
AAGTAGGACATACTTTTTTCCAAAAGCCTGAGAGTTGCCCGCCTGTGCCAGGAGGTAGTATGAAGCTTGAC
ATTGGCATCATCAATGAAAACCAGCGCGTTTCCATGTCACGTAACATCGAGAGCCGCTCCACCTCCCCCTG
GAATTACACTGTCACCTGGGACCCCAACCGGTACCCCTCGGAAGTTGTACAGGCCCAGTGTAGGAACCTGG
GCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATTCCGTTCCCATCCAGCAAGAGACCCTGGTCGTC
CGGAGGAAGCACCAAGGCTGCTCTGTTTCTTTCCAGTTGGAGAAGGTGCTGGTGAAGTGTGGCTGCACCTG
CGTCACCCCTGTCATCCACCATGTGCAGTAAGAGGTGCATATCCACTCAGCTGAAGAAG

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10/71

FIGURE 10

MTVKTLHGPAMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMS
RNIESRSTSPWNYTWTWDPNRYPSSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGC SVSFQ
LEKVLVTVGCTCVTPVIHHVQ

Signal sequence:

Amino acids 1-30

N-glycosylation site:

Amino acids 83-86

N-myristoylation sites:

Amino acids 106-111;136-141

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FIGURE 11

CCGGCGATGTCGCTCGTGCTGCTAAGCCTGGCCGCGCTGTGCAGGAGCGCCGTACCCCGAGAGCCGACCGT
TCAATGTGGCTCTGAAACTGGGCCATCTCCAGAGTGGATGCTACAACATGATCTAATCCCCGAGACTTGA
GGGACCTCCGAGTAGAACCTGTTACAACTAGTGTGCAACAGGGGACTATTCAATTTTGATGAATGTAAGC
TGGGTACTCCGGGCAGATGCCAGCATCCGCTTGTTGAAGGCCACCAAGATTTGTGTGACGGGCAAAGCAA
CTTCCAGTCCTACAGCTGTGTGAGGTGCAATTACACAGAGGCCCTTCCAGACTCAGACCAGACCCTCTGGTG
GTAAATGGACATTTTCTACATCGGCTTCCCTGTAGAGCTGAACACAGTCTATTTTATTGGGGCCCATAAT
ATTCCCTAATGCAATATGAATGAAGATGGCCCTTCCATGTCTGTGAATTTACCTCACCAGGCTGCCTAGA
CCACATAATGAAATATAAAAAAAGTGTGTCAAGGCCGGAAGCCTGTGGGATCCGAACATCACTGCTTGTA
AGAAGAATGAGGAGACAGTAGAAGTGAACCTTCAACCACTCCCCTGGGAAACAGATACATGGCTCTTATC
CAACACAGCACTATCATCGGGTTTTCTCAGGTGTTTGAGCCACACCAGAAGAAACAAACGCGAGCTTCAGT
GGTGATTCCAGTGACTGGGGATAGTGAAGGTGCTACGGTGCAGCTGACTCCATATTTTCTTACTTGTGGCA
GCGACTGCATCCGACATAAAGGAACAGTTGTGCTCTGCCCACAAACAGGCGTCCCTTTCCCTCTGGATAAC
AACAAAAGCAAGCCGGGAGGCTGGCTGCCTCTCCTCTGCTGTCTCTGCTGGTGGCCACATGGGTGCTGGT
GGCAGGGATCTATCTAATGTGGAGGCACGAAAGGATCAAGAAGACTTCCTTTTCTACCACCACACTACTGC
CCCCCATTAAGGTTCTTGTGGTTTACCCATCTGAAATATGTTTCCATCACACAATTTGTTACTTCACTGAA
TTTCTTCAAACCATTCAGAAAGTGAGGTCACTCTTGAAGAGTGGCAGAAAAAGAAAAATAGCAGAGATGGG
TCCAGTGCACTGGCTTGCCACTCAAAGAAGGCAGCAGACAAAGTCGTCTTCTTCTTCCAATGACGTCA
ACAGTGTGTGCGATGGTACCTGTGGCAAGAGCGAGGGCAGTCCCAGTGAGAACTCTCAAGACCTCTTCCCC
CTTGCCCTTTAACCTTTTCTGCAGTGATCTAAGAAGCCAGATTTCATCTGCACAAATACGTGGTGGTCTACTT
TAGAGAGATTGATACAAAAGACGATTACAATGCTCTCAGTGTCTGCCCCAAGTACCACCTCATGAAGGATG
CCTGCTTTTCTGTGCAGAACTTCTCCATGTCAAGCAGCAGGTGTCAGCAGGAAAAAGATCACAAAGCCTGC
CACGATGGCTGCTGCTCCTTGTAG

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FIGURE 12

MSLVLLSLAALCRSAVPREPTVQCGSETGPSPEWMLQHDLI PGDLRLDLRVEPVTTSVATGDYSILMNVSWV
LRADASIRLLKATKICVTGKSNFQSYSCVRCNYTEAFQTQTRPSGGKWTF SYIGFPVELNTVYFIGAHNIP
NANMNEDGPSMSVNFTSPGCLDHIMYKKKCVKAGSLWDPNITACKKNEETVEVNFTTTPLGNRYMALIQH
STIIGFSQVFEPHQKKQTRASVVIPVTGDSEGATVQLTPYFPTCGSDCIRHKGTVVLC PQTGVPFPLDNNK
SKPGGWLPLLLLSLLVATWVLVAGIYLMWRHERIKKTSFSTTTLLPPIKVLVVYPSEICFHHTICYFTEFL
QNHCRSEVILEKWQKKKIAEMGPVQWLATQKKAADKVVFLLSNDVNSVCDGTCGKSEGSPSENSQDLFPLA
FNLFCSDLRSQIHLHKYVVVYFREIDTKDDYNALSVCPKYHLMKDATAFCAELLHV KQQVSAGKRSQACHD
GCCSL

Signal sequence:	Amino acids 1-14
Transmembrane domain:	Amino acids 290-309
N-glycosylation sites:	Amino acids 67-70;103-106;156-159; 183-186;197-200;283-286
cAMP- and cGMP-dependent protein kinase phosphorylation sites:	Amino acids 228-231;319-322
N-myristoylation site:	Amino acids 116-121
Amidation site:	Amino acids 488-491

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FIGURE 13

ACACTGGCCAAACAAAAACGAAAGCACTCCGTGCTGGAAGTAGGAGGAGAGTCAGGACTCCCAGGACAGAG
AGTGACAAACTACCCAGCACAGCCCCCTCCGCCCCCTCTGGAGGCTGAAGAGGGATTCCAGCCCCCTGCCA
CCCACAGACACGGGCTGACTGGGGTGTCTGCCCCCCTTGGGGGGGGGCAGCACAGGGCCTCAGGCCTGGGT
GCCACCTGGCACCTAGAAGATGCCTGTGCCCTGGTTCTTGCTGTCTTGGCACTGGGCGAAGCCCAGTGG
TCCTTTCTCTGGAGAGGCTTGTGGGGCCTCAGGACGCTACCCACTGCTCTCCGGGCCTCTCCTGCCGCCTC
TGGGACAGTGACATACTCTGCCTGCCTGGGGACATCGTGCCTGCTCCGGGCCCCGTGCTGGCGCCTACGCA
CCTGCAGACAGAGCTGGTGTGAGGTGCCAGAAGGAGACCGACTGTGACCTCTGTCTGCGTGTGGCTGTCC
ACTTGGCCGTGCATGGGCACTGGGAAGAGCCTGAAGATGAGGAAAAGTTTGGAGGAGCAGCTGACTCAGGG
GTGGAGGAGCCTAGGAATGCCTCTCTCCAGGCCCAAGTCGTGCTCTCCTTCCAGGCCCTACCCTACTGCCCC
CTGCGTCTGTGCTGGAGGTGCAAGTGCCTGCTGCCCTTGTGCAGTTTGGTCAGTCTGTGGGCTCTGTGGTATAT
GACTGCTTCGAGGCTGCCCTAGGGAGTGAGGTACGAATCTGGTCTATACTCAGCCCAGGTACGAGAAGGA
ACTCAACCACACACAGCAGCTGCCTGCCCTGCCCTGGCTCAACGTGTGAGCAGATGGTGACAACGTGCATC
TGTTTCTGAATGTCTCTGAGGAGCAGCACTTCGGCCTCTCCCTGTACTGGAATCAGGTCCAGGGCCCCCA
AAACCCCGGTGGCACAAAAACCTGACTGGACCGCAGATCATTACCTTGAACCACACAGACCTGGTTCCTTG
CCTCTGTATTTCAGGTGTGGCCTCTGGAACCTGACTCCGTTAGGACGAACATCTGCCCCCTCAGGGAGGACC
CCCGCGCACACCAGAACCTCTGGCAAGCCGCCGACTGCGACTGCTGACCCTGCAGAGCTGGCTGCTGGAC
GCACCGTGCTCGCTGCCCCGAGAAGCGGCACTGTGCTGGCGGGCTCCGGGTGGGGACCCCTGCCAGCCACT
GGTCCCACCGCTTTCTGGGAGAACGTCACTGTGGACAAGGTTCTCGAGTTCCCATTGCTGAAAGGCCACC
CTAACCTCTGTGTTTCAGGTGAACAGCTCGGAGAAGCTGCAGCTGCAGGAGTGCTTGTGGGCTGACTCCCTG
GGGCTCTCAAAGACGATGTGCTACTGTTGGAGACACGAGGCCCCCAGGACAACAGATCCCTCTGTGCCTT
GGAACCCAGTGGCTGTACTTCACTACCCAGCAAAGCCTCCACGAGGGCAGCTCGCCTTGGAGAGTACTTAC
TACAAGACCTGCAGTCAGGCCAGTGTCTGCAGCTATGGGACGATGACTTGGGAGCGCTATGGGCCTGCCCC
ATGGACAAATACATCCACAAGCGCTGGGCCCTCGTGTGGCTGGCCTGCCTACTCTTTGCCGCTGCGCTTTC
CCTCATCCTCCTTCTCAAAAAGGATCACGCGAAAGGTGGCTGAGGCTCTTGAAACAGGACGTCCGCTCGG
GGGCGGCCGCCAGGGGCCGCGCGCTCTGCTCCTCTACTCAGCCGATGACTCGGGTTTCGAGCGCCTGGTG
GGCGCCCTGGCGTGGGCCCTGTGCCAGCTGCCGCTGCGCGTGGCCGTAGACCTGTGGAGCCGTGCTGAACT
GAGCGCGCAGGGGCCCGTGGCTTGGTTTACGCGCAGCGGCCAGACCCTGCAGGAGGGCGGCGTGGTGG
TCTTGCTCTTCTCTCCCGGTGCGGTGGCGCTGTGCAGCGAGTGGCTACAGGATGGGGTGTCCGGGCCCGGG
GCGCACGGCCCGCACGACGCCTTCCGCGCCTCGCTCAGCTGCGTGCTGCCCCGACTTCTTGAGGGCCGGGC
GCCCCGCAGCTACGTGGGGGCCCTGCTTCGACAGGCTGCTCCACCCGACGCGGTACCCGCCCTTTTCCGCA
CCGTGCCCGTCTTCACTGCCCCCTCCAACTGCCAGACTTCTTGGGGGCCCTGCAGCAGCCTCGCGCCCCG
CGTTCGGGGCGGCTCCAAGAGAGAGCGGAGCAAGTGTCCCGGGCCCTTACGCCAGCCCTGGATAGCTACTT
CCATCCCCCGGGGACTCCCGCGCCGGGACGCGGGGTGGGACCAGGGGCGGGACCTGGGGCGGGGACGGGA
CTTAAATAAAGGCAGACGCTGTTTTTCTAAAAAA

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FIGURE 14

MPVPWFLLSLALGRSPVVLSELRVGPQDATHCSPGLSCRLWSDILCLPGDIVPAPGPVLAPTHLQTELV
LRCQKETDCDLCLRVAVHLAVHGHWEPEDEEKFGGAADSGVEEPRNASLQAQVVLSTFQAYPTARCVLLEV
QVPAALVQFGQSVGSVVYDCFEAALGSEVRIWSYTQPRYEKELNHTQQLPALPWLNVSAAGDNVHLVNLVS
EEQHFGLSLYWNQVQGPVKPRWHKNLTGPIITLNHTDLVPCLCIQVWPLEPDSVRTNICPFREDPRAHQN
LWQAARLRLLTLQSWLLDAPCSLPAAALCWRAPGGDPCQPLVPPLSWENVTVDKVLEFPLLKGHPNLCVQ
VNSSEKLQEQECLWADSLGPLKDDVLLLETRGPQDNRSLEPSGCTSLPSKASTRAARLGEYLLQDLQS
GQCLQLWDDDLGALWACPMKYIHKRWALVWLACLLFAAALSLILLKKDHAKGWLRLKQDVRSAAAARG
RAALLLYSADDSGFERLVGALASALCQLPLRVAVDLWSRRELSAQGPVAFHQAQRQTLEGGVVVLLFSP
GAVALCSEWLQDGVSGPGAHGPHDAFRASLSCVLPDFLQGRAPGSYVGACFDRLHPDAVPALFRTVPVFT
LPSQLPDFLQPRAPRSGRLQERAEQVSRALQPALDSYFHPGTPAPGRGVGPGAGPGAGDGT

signal sequence:	Amino acids 1-20
transmembrane domain:	Amino acids 453-473
N-glycosylation sites:	Amino acids 118-121;186-189;198-201; 211-214;238-241;248-251;334-337; 357-360;391-394
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Glycosaminoglycan attachment site:	Amino acids 583-586
cAMP- and cGMP-dependent protein kinase phosphorylation site:	Amino acids 552-555
N-myristoylation sites:	Amino acids 107-112;152-157;319-324; 438-443;516-521;612-617;692-697; 696-701;700-705

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FIGURE 15

CGAGGGCTCCTGCTGGTACTGTGTTTCGCTGCTGCACAGCAAGGCCCTGCCACCCACCTTCAGGCCATGCAG
CCATGTTCCGGGAGCCCTAATTGCACAGAAGCCCATGGGGAGCTCCAGACTGGCAGCCCTGCTCCTGCCTC
TCCTCCTCATAGTCATCGACCTCTCTGACTCTGCTGGGATTGGCTTTCGCCACCTGCCCCACTGGAACACC
CGCTGTCCTCTGGCCTCCACACGGATGACAGTTTCACTGGAAGTTCTGCCTATATCCCTTGCCGCACCTG
GTGGGCCCTCTTCTCCACAAAGCCTTGGTGTGTGCGAGTCTGGCACTGTTCCCGCTGTTTGTGCCAGCATCTGC
TGTCAAGTGGCTCAGGTCTTCAACGGGGCCTCTTCCACCTCCTGGTGCAGAAATCCAAAAGTCTTCCACA
TTCAAGTTCTATAGGAGACACAAGATGCCAGCACCTGCTCAGAGGAAGCTGCTGCCTCGTCGTACCTGTCT
TGAGAAGAGCCATCACATTTCCATCCCTCCCCAGACATCTCCACAAGGGACTTCGCTCTAAAAGGACCC
AACCTTCGGATCCAGAGACATGGGAAAGTCTTCCCAGATTGGACTCACAAGGCATGGAGGACCCGAGTTC
TCCTTTGATTTGCTGCCTGAGGCCCCGGGCTATTTCGGGTGACCATATCTTCAGGCCCTGAGGTGAGCGTGCG
TCTTTGTCAACAGTGGGCACTGGAGTGTGAAGAGCTGAGCAGTCCCTATGATGTCCAGAAAATTGTGTCTG
GGGGCCACACTGTAGAGCTGCCTTATGAATTCCTTCTGCCCTGTCTGTGCATAGAGGCATCCTACCTGCAA
GAGGACACTGTGAGGCGCAAAAAATGTCCCTTCCAGAGCTGGCCAGAAGCCTATGGCTCGGACTTCTGGAA
GTCAGTGCACCTCACTGACTACAGCCAGCACACTCAGATGGTCATGGCCCTGACACTCCGCTGCCCCACTGA
AGCTGGAAGCTGCCCTCTGCCAGAGGCACGACTGGCATAACCTTTGCAAAGACCTCCCGAATGCCACGGCT
CGAGAGTCAGATGGGTGGTATGTTTTGGAGAAGGTGGACCTGCACCCCCAGCTCTGCTTCAAGTTCTCTTT
TGGAACAGCAGCCATGTTGAATGCCCCACCAGACTGGGTCTCTCACATCCTGGAATGTAAGCATGGATA
CCCAAGCCCAGCAGCTGATTCTTCACTTCTCCTCAAGAATGCATGCCACCTTCAGTGCTGCCTGGAGCCTC
CCAGGCTTGGGGCAGGACACTTTGGTGCCCCCGTGTACACTGTCAGCCAGGCCCGGGGCTCAAGCCCAGT
GTCACTAGACCTCATCATTCCCTTCCCTGAGGCCAGGGTGCTGTGTCTGCTGGTGTGGCGGTGAGATGTCCAGT
TTGCCTGGAAGCACCTCTTGTGTCCAGATGTCTCTTACAGACACCTGGGGCTCTTGATCCTGGCACTGCTG
GCCCTCCTCACCTACTGGGTGTTGTTCTGGCCCTCACCTGCCGGCGCCACAGTCAGGCCCGGGCCCAGC
GCGGCCAGTGCTCCTCCTGCACGCGGCGGACTCGGAGGCGCAGCGGCGCCTGGTGGGAGCGCTGGCTGAAC
TGCTACGGGCAGCGCTGGGCGGCGGGCGGACGTGATCGTGGACCTGTGGGAGGGGAGGCACGTGGCGCGCGT
GGGCCCGCTGCCGTGGCTCTGGGCGGCGGACGCGCGTAGCGGGAGCAGGGCACTGTGCTGCTGCTGT
GGAGCGGCGCCGACCTTCGCCCGGTGAGCGGCCCCGACCCCCGCGCGCGCCCCCTGCTCGCCCTGCTCCAC
GCTGCCCCGCGCCCGCTGCTGCTGCTCGCTTACTTCAGTCGCCTCTGCGCCAAGGGCGACATCCCCCGCC
GCTGCGCGCCCTGCCGCGCTACCGCTGCTGCGCGACCTGCCGCGTCTGCTGCGGGCGCTGGACGCGCGGC
CTTTCGCAGAGGCCACCAGCTGGGGCCGCTTGGGGCGCGGCAGCGCAGGCAGAGCCGCTAGAGCTGTGC
AGCCGGCTTGAACGAGAGGCCGCCGACTTGACAGACCTAGGTTGAGCAGAGCTCCACCGCAGTCCCGGGTGTCT

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FIGURE 16

MGSSRLAALLPLLLIVIDLSDSAGIGFRHLPHWNTRCPLASHTDDSFTGSSAYIPCRTWWALFSTKPWCV
RVWHCSRCLCQHLLSGGSLQRGLFHLLVQKSKSSTFKFYRRHKMPAPAQRKLLPRRHLSEKSHHISIPS
PDISHKGLRSKRTQPSDPETWESLPRLDSQRHGGPEFSFDLLPEARAIRVTISSGPEVSVRLCHQWALECE
ELSSPYDVQKIVSGGHTVELPYEFLLPCLCIEASYLQEDTVRRKKCPFQSWPEAYGSDFWKSVHFTDYSQH
TQMVMALTLCPLKLEAALCQRHDWHTLCKDLPNATARESDGWYVLEKVDLHPQLCFKFSFGNSSHVECPH
QTGSLTSWNVSMQTQAQQLILHFSSRMHATFSAAWSLPGLGQDTLVPPVYTVSQARGSSPVSLDLIIPFLR
PGCCVLVWRSDVQFAWKHLLCPDVSYRHLGLLLALLALLTLLGVVLALTCRRPQSGPGPARPVLLHAAD
SEAQRRLVGALAELLRAALGGGRDVIVDLWEGRHVARVGPLPWLWAARTRVAREQGTVLLLWSGADLRPVS
GPDPRAPLLALLHAAPRPLLLLAYFSRLCAKGDIPPLRALPRYRLRLDLPRLLRALDARPF AEATSWGR
LGARQRRQSRLELC SRLERE AARLADLG

Signal peptide:	Amino acids 1-23
Transmembrane domain:	Amino acids 455-472
N-glycosylation sites:	Amino acids 318-322;347-351;364-368
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Glycosaminoglycan attachment site:	Amino acids 482-486
cAMP- and cGMP-dependent protein kinase phosphorylation sites:	Amino acids 104-108;645-649
Tyrosine kinase phosphorylation site:	Amino acids 322-329
N-myristoylation sites:	Amino acids 90-96;358-364;470-476
Eukaryotic cobalamin-binding proteins:	Amino acids 453-462

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FIGURE 17

GCCAGGCCCTATCTCCCTGCCAGGAGGCCGGAGTGGGGGAGGTCAGACGGGGCGGTTGGAGGGGGAGGGAT
GCCACGCGCTTCTGCCTCAGGTGTTCCCTGCGTTGTTTGTCACTGGAGAGCAGGGAGTGGGGCCAGCCAGCA
GAAACAGTGGGCTGTACAACATCACCTTCAAATATGACAATTGTACCACCTACTTGAATCCAGTGGGGAAG
CATGTGATTGCTGACGCCCAGAATATCACCATCAGCCAGTATGCTTGCCATGACCAAGTGGCAGTCACCAT
TCTTTGGTCCCCAGGGGCCCTCGGCATCGAATTCCTGAAAGGATTTCGGGTAATACTGGAGGAGCTGAAGT
CGGAGGGAAGACAGTGCCAACTGATTCTAAAGGATCCGAAGCAGCTCAACAGTAGCTTCAAAGAACT
GGAATGGAATCTCAACCTTTCCTGAATATGAAATTTGAAACGGATTATTTTCGTAAAGGTTGTCCCTTTTCC
TTCCATTAAAAACGAAAGCAATTACCACCCTTTCTTCTTTAGAACCCGAGCCTGTGACCTGTTGTTACAGC
CGGACAATCTAGCTTGTAAACCCTTCTGGAAGCCTCGGAACCTGAACATCAGCCAGCATGGCTCGGACATGC
AGGTGTCCTTCGACCACGCACCCGATGGCTCGGACATGCAGGTGTCCTTCGACCACGCACCCGACAACCTTC
GGCTTCCGTTTCTTCTATCTTCACTACAAGCTCAAGCACGAAGGACCTTCAAGCGAAAGACCTGTAAGCA
GGAGCAAACCTACAGAGATGACCAGCTGCCTCCTTCAAATGTTTCTCCAGGGGATTATATAATTGAGCTGG
TGGATGACACTAACACAACAAGAAAAGTGATGCATTATGCCTTAAAGCCAGTGCACCTCCCGTGGGCCGGG
CCCATCAGAGCCGTGGCCATCACAGTGCCACTGGTAGTCATATCGGCATTCGCGACGCTCTTCACTGTGAT
GTGCCGCAAGAAGCAACAAGAAAATATATATTACATTTAGATGAAGAGAGCTCTGAGTCTTCCACATACA
CTGCAGCACTCCCAAGAGAGAGGCTCCGGCCGCGGCCGAAGGTCTTTCTCTGCTATTCCAGTAAAGATGGC
CAGAATCACATGAATGTGCTCCAGTGTTTCGCCTACTTCCCTCCAGGACTTCTGTGGCTGTGAGGTGGCTCT
GGACCTGTGGGAAGACTTCAGCCTCTGTAGAGAAGGGCAGAGAGAATGGGTCTATCCAGAAGATCCACGAGT
CCCAGTTCATCATTGTGGTTTGTTCCAAAGGTATGAAGTACTTTGTGGACAAGAAGAACTACAAACACAAA
GGAGGTGGCCGAGGCTCGGGGAAAGGAGAGCTCTTCTGGTGGCGGTGTGAGCCATTGCCGAAAAGCTCCG
CCAGGCCAAGCAGAGTTTCGTCCGCGGCGCTCAGCAAGTTTATCGCCGTCTACTTTGATTATTCTTGCAGG
GAGACGTCCCCGGTATCCTAGACCTGAGTACCAAGTACAGACTCATGGACAATCTTCCCTCAGCTCTGTTCC
CACCTGCACTCCCGAGACCACGGCCTCCAGGAGCCGGGGCAGCACACGCGACAGGGCAGCAGAAGGAACTA
CTTCCGGAGCAAGTCAGGCCGGTCCCTATACGTCGCCATTTGCAACATGCACCAGTTTATTGACGAGGAGC
CCGACTGGTTTCGAAAAGCAGTTTCGTTCCCTTCCATCCTCCTCCACTGCGCTACCGGGAGCCAGTCTTGAG
AAATTTGATTTCGGGCTTGTTTTAAATGATGTCATGTGCAAACCAGGGCCTGAGAGTGACTTCTGCCTAAA
GGTAGAGGCGGCTGTTCTTGGGGCAACCGGACCAGCCGACTCCAGCACGAGAGTCAGCATGGGGGCCTGG
ACCAAGACGGGGAGGCCCGGCTGCCCTTGACGGTAGCGCCGCCCTGCAACCCCTGCTGCACACGGTGAAA
GCCGGCAGCCCCTCGGACATGCCGCGGGACTCAGGCATCTATGACTCGTCTGTGCCCTCATCCGAGCTGTC
TCTGCCACTGATGGAAGGACTCTCGACGGACCAGACAGAAACGTCTTCCCTGACGGAGAGCGTGTCTCTCT
CTTCAGGCCTGGGTGAGGAGGAACCTCCTGCCCTTCTTCCAAGCTCCTCTCTTCTGGGTCTATGCAAAGCA
GATCTTGGTTGCCGAGCTACACTGATGAATCCACGCGGTGCGCCCTTTGTAAACAAAACGAAAGAGTCTA
AGCATTGCCACTTTAAAAA

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FIGURE 18

MPRASASGV PALFVSGEQGVGPASRNSGLYNITFKYDNCTTYLNPVGKHVIADAQNITISQYACHDQVAVT
ILWSPGALGIEFLKGFRVILEELKSEGRQCQQLILKDPKQLNSSFKRTGMESQPFLNMKFETDYFVKVVPF
PSIKNESNYHPFFFRTRACDLLLQPDNLACKPFWKPRNLNISQHGSDMQVSFDHAPHGSDMQVSFDHAPHN
FGFRFFYLHYKLKHEGPFKRKTCKQEQTTEMTSCLLQNVSPGDYIIELVDDTNTTRKVMHYALKPVHSPWA
GPIRAVAITVPLVVISAFATLFTVMCRKKQENIYSHLDEESSESSTYTAALPRERLRPRPKVFLCYSSKD
GQNHMNVVQCFAYFLQDFCGCEVALDLWEDFSLCREGQREWVIQKIHESQFIIVVCSKGMKYFVDKKNYKH
KGGGRGSGKGELFLVAVSAIAEKLQAKQSSSAALSKFIAVYFDYSCEGDVPGILDLSTKYRLMDNLPQLC
SHLHSRDHGLQEPGQHTRQGSRRNYFRSKSGRSLYAICNMHQFIDEEDWFEKQFVFPFHPPLRYREPVL
EKFD SGLVLNDVMCKPGPESDFCLKVEAAVLGATGPADSQHESQHGGLDQDGEARPALDGSAAALQPLLHTV
KAGSPSDMPRDSGIYDSSVPSEL SLPLMEGLSTDQTETSSLTESVSSSSGLGEEEPALPSKLLSSGSCK
ADLGCRSYTDELHAVAPL

Transmembrane domain:

Amino acids 283-307

N-glycosylation sites:

Amino acids 31-34;38-41;56-59;
113-116;147-150;182-185;266-269

Glycosaminoglycan attachment sites: Amino acids 433-436;689-692

cAMP- and cGMP-dependent protein kinase phosphorylation:

Amino acids 232-235

Tyrosine kinase phosphorylation sites: Amino acids 312-319;416-424

N-myristoylation site:

Amino acids 19-24;375-380;428-433;
429-434;432-437;517-522;574-579;
652-657;707-712

h-IL17	1	- M T P G K T S L V S L L	L L L S L E A I V K A G I T I P R
h-IL17B	1 . . . . .	. . . . .	M D W P H N L L F L L T	I S I F L G L G Q P R S P K	S K R K G Q G R P G P L A P G P
h-IL17C	1 M T L L P G L L F L T W L	H T C L A H H D P S L R G H P H S H G T	P H C Y S A E E L P L G Q A P P H			
h-IL17D	1 . . . . .	. . . . .	. . . . .	M L V A G F L L A L P P S W A A G A P	R A G R R P A R P R G C A D R P
h-IL17E	1 . . . . .	. . . . .	. . . . .	M R E R P R L G E D S S L I S L F L	Q V V A F L A M V M G T H T Y S H
h-IL17F	1 . . . . .	. . . . .	. . . . .	M T V K T L H G P A M V K Y L L L S I L	G L A F L S E A A R K I P K V G

h-IL17	30 N P G C P N S E D K N F P R T V M V N L N I H N R R N T N T N P K - - - - - - - - - - R S S D
h-IL17B	43 H Q V P L D L V S R M K P Y A R M E E Y E R N I E E M V A Q L R N S S E L A Q R K C E V N L Q L W M
h-IL17C	51 L L A R G A K W G Q A L P V A L V S S L E A A S H R G R H E R P S A T T Q C P V L R P E E V L E A D
h-IL17D	36 E E L E Q L Y G R L A A G V L S A F H H T L Q L G P R E Q A R N A S C P A G G R P A D R R F R P P
h-IL17E	36 W P S C C P S K G Q D T S E E L L R W S T V P P L E P A R P N R H P E S C R A S - - - E D G P
h-IL17F	38 H T F F Q K P E S C P P V P G G S M K L D I G I I N E N Q R V S - - - - - - - - - - M S R N

h-IL17
h-IL17B
h-IL17C
h-IL17D
h-IL17E
h-IL17F

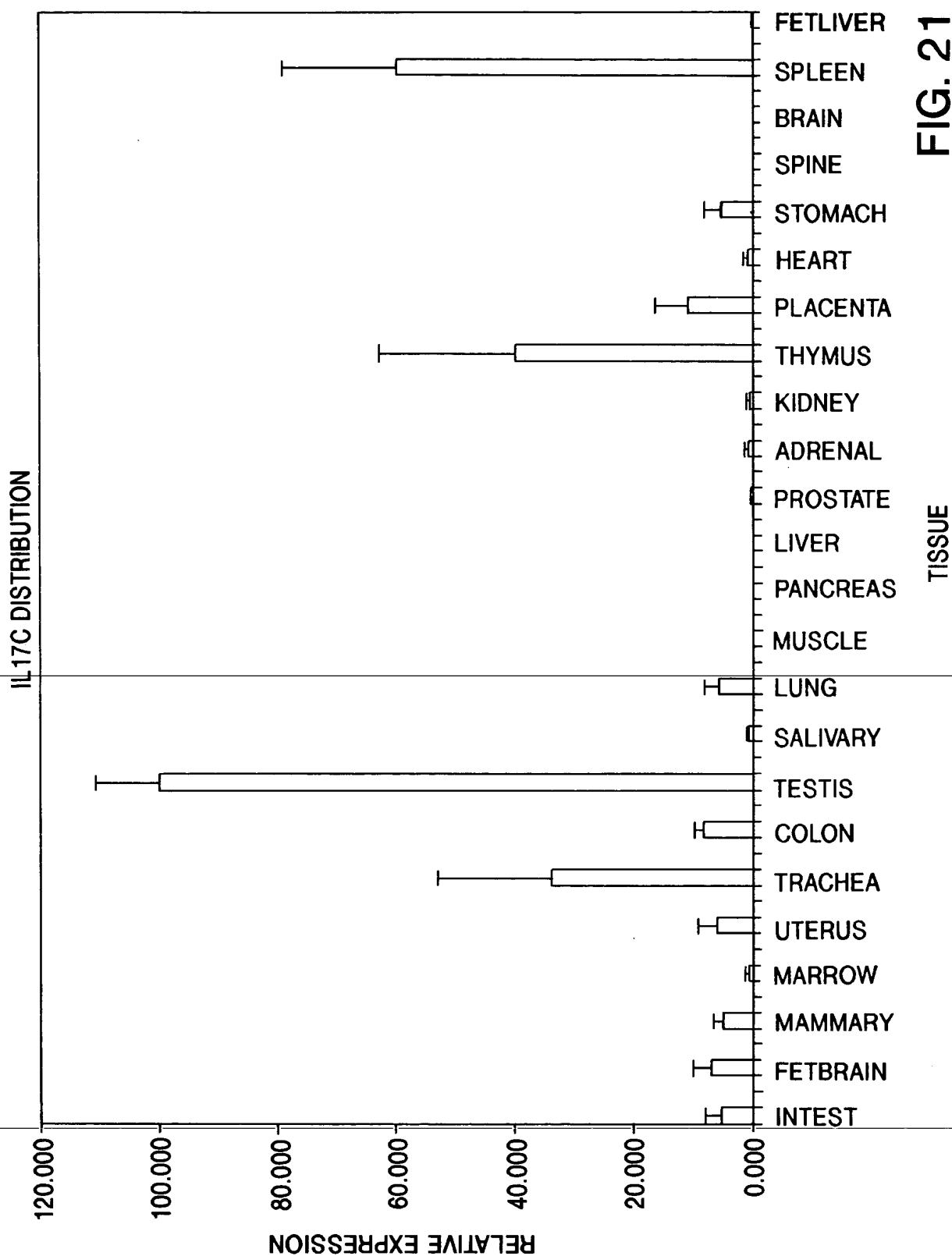
h-IL17	115	I Q E I L V L R R E	P P H C P N S F R L E K I L V S V G C T C V T P I V H H V A
h-IL17B	143	V F S Q V P V R R R L C P P	P R T G P C R Q R A V M E T I A V G C T C I F
h-IL17C	151	L L Q S L L V L R R R P C S R D G S G L P T P G A F A F H T E F I H V P V G C T C V L P R S V . . .	
h-IL17D	136	V Y M P T V V L R R R T P A C A G	G R S V Y T E A Y V T I P V G C T C V P E P E K D A D
h-IL17E	132	L L Y H N Q T V F Y R R P C H G E K	G T H K G Y C L E R R L Y R V S L A C V C V R P R V M G . . .
h-IL17F	123	I Q E T L V V R R K	H Q G C S V S F Q L E K V L V T V G C T C V T P I V H H V Q

h-IL17D 179 S I N S S I D K Q G A K L L L G P N D A P A G P X

FIG. 19

Tissue	IL17D Distribution (approx.)
SPLEEN	0.000
BRAIN	0.000
SPINE	100.000
STOMACH	0.000
HEART	0.000
PLACENTA	10.000
THYMUS	0.000
KIDNEY	0.000
ADRENAL	10.000
PROSTATE	25.000
LIVER	0.000
PANCREAS	0.000
MUSCLE	0.000
LUNG	0.000
SALIVARY	10.000
TESTIS	90.000
COLON	10.000
TRACHEA	80.000
UTERUS	30.000
MARROW	0.000
MAMMARY	0.000
FETBRAIN	0.000
INTEST	0.000

FIG. 20



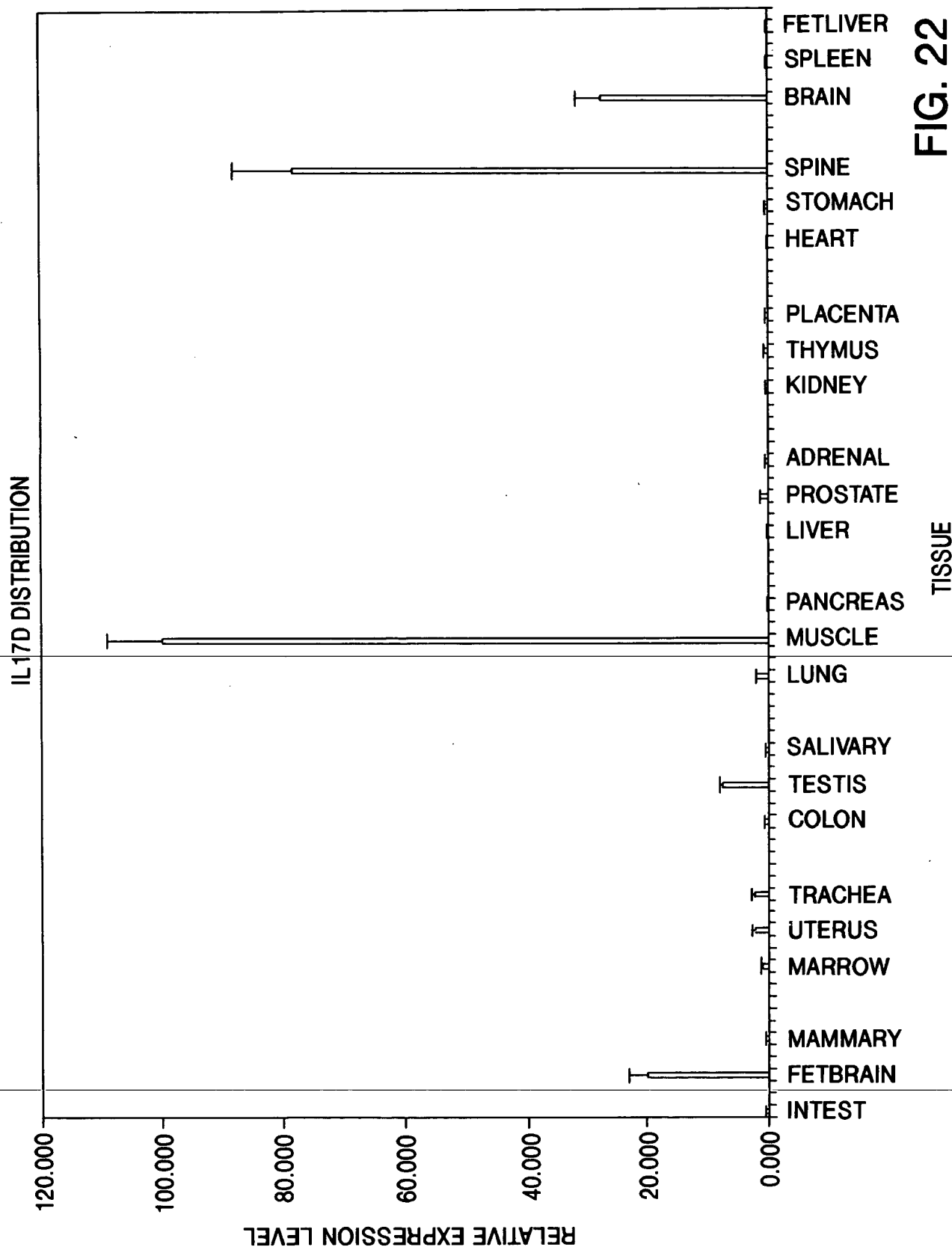


FIG. 22

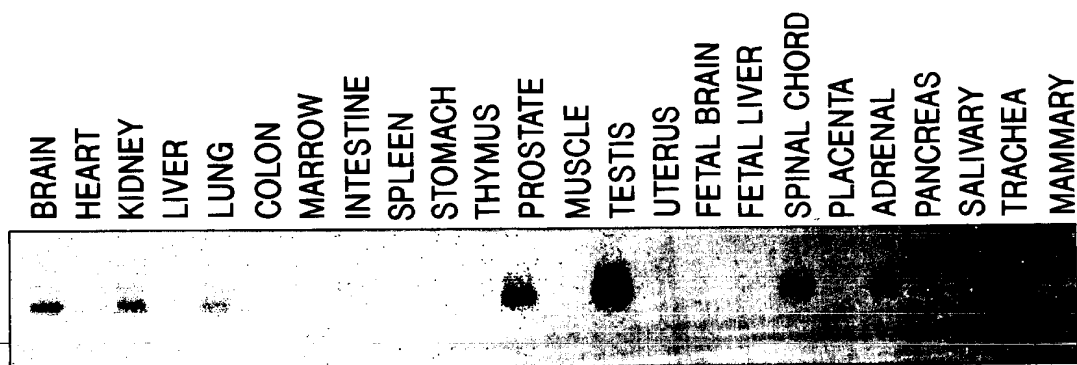


FIG. 23



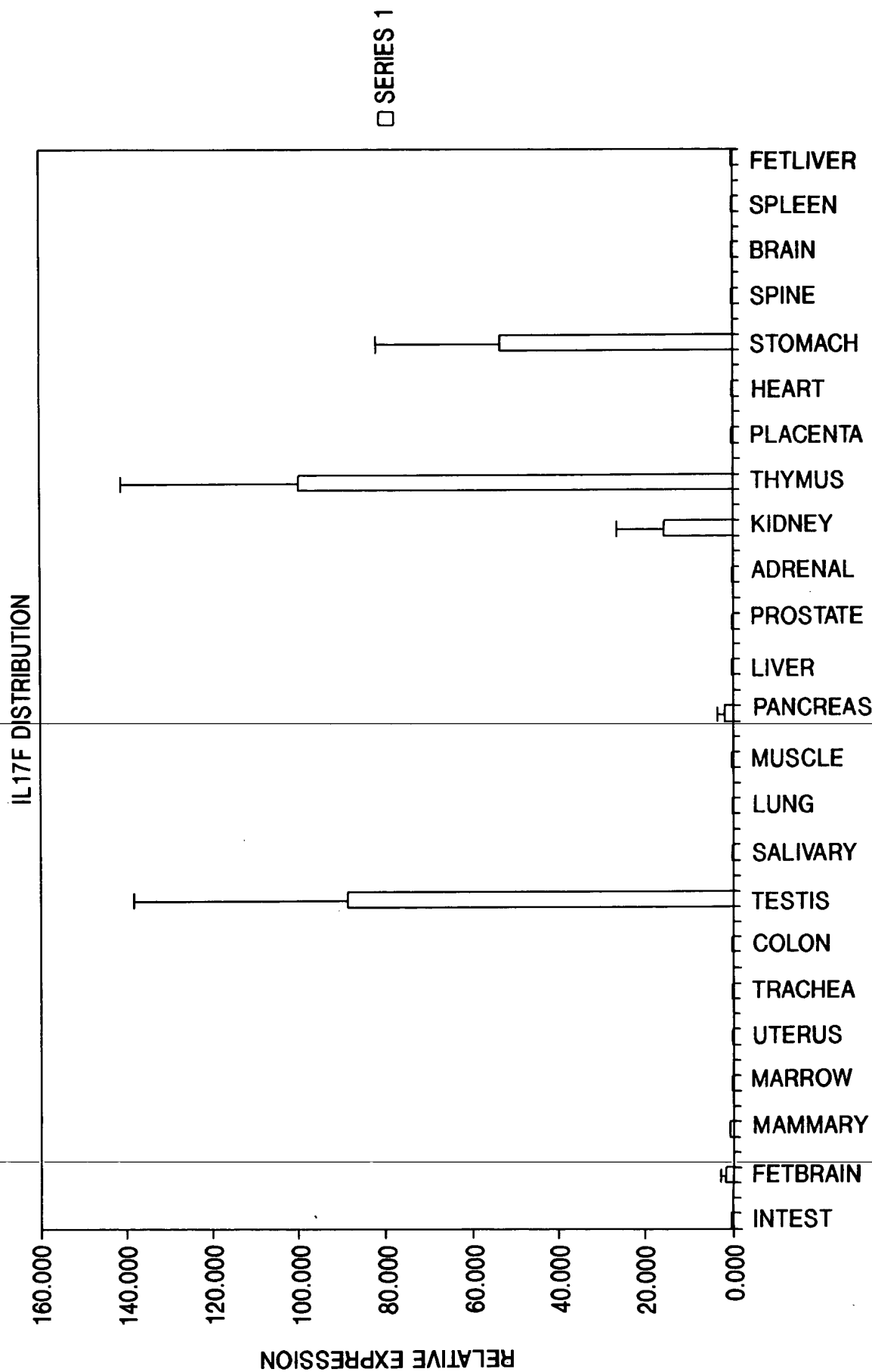


FIG. 24

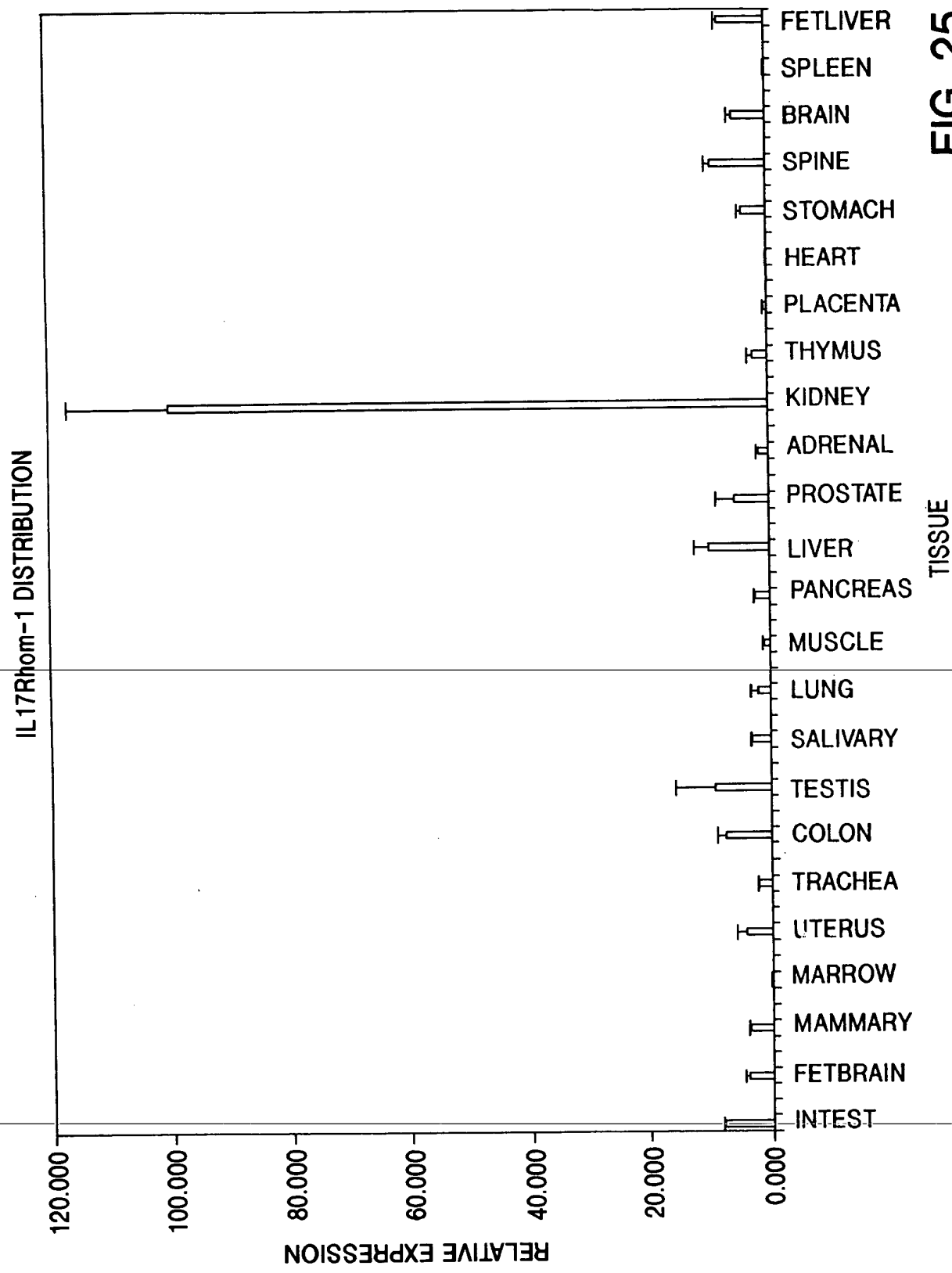


FIG. 25

20050725100001

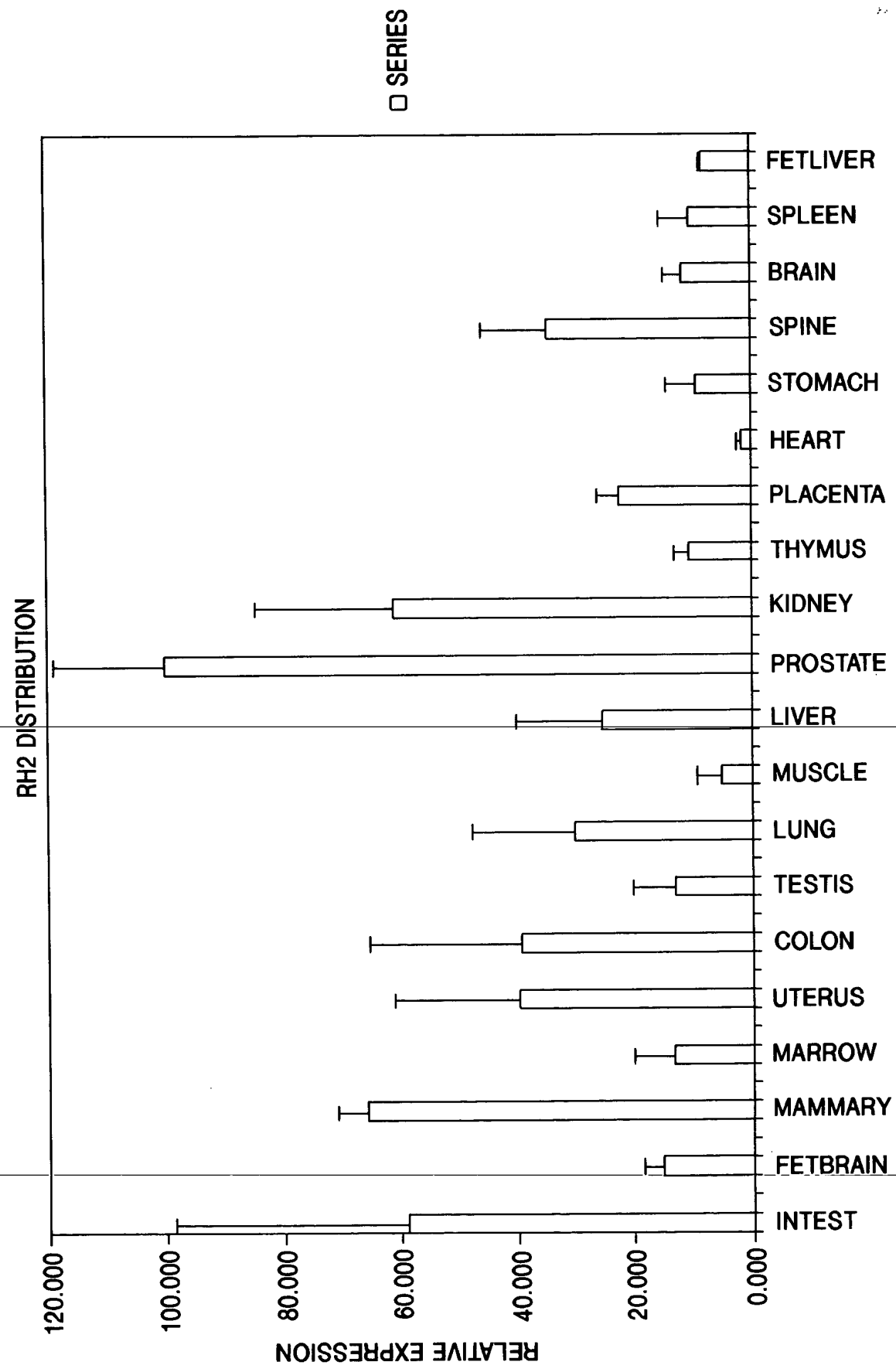


FIG. 26

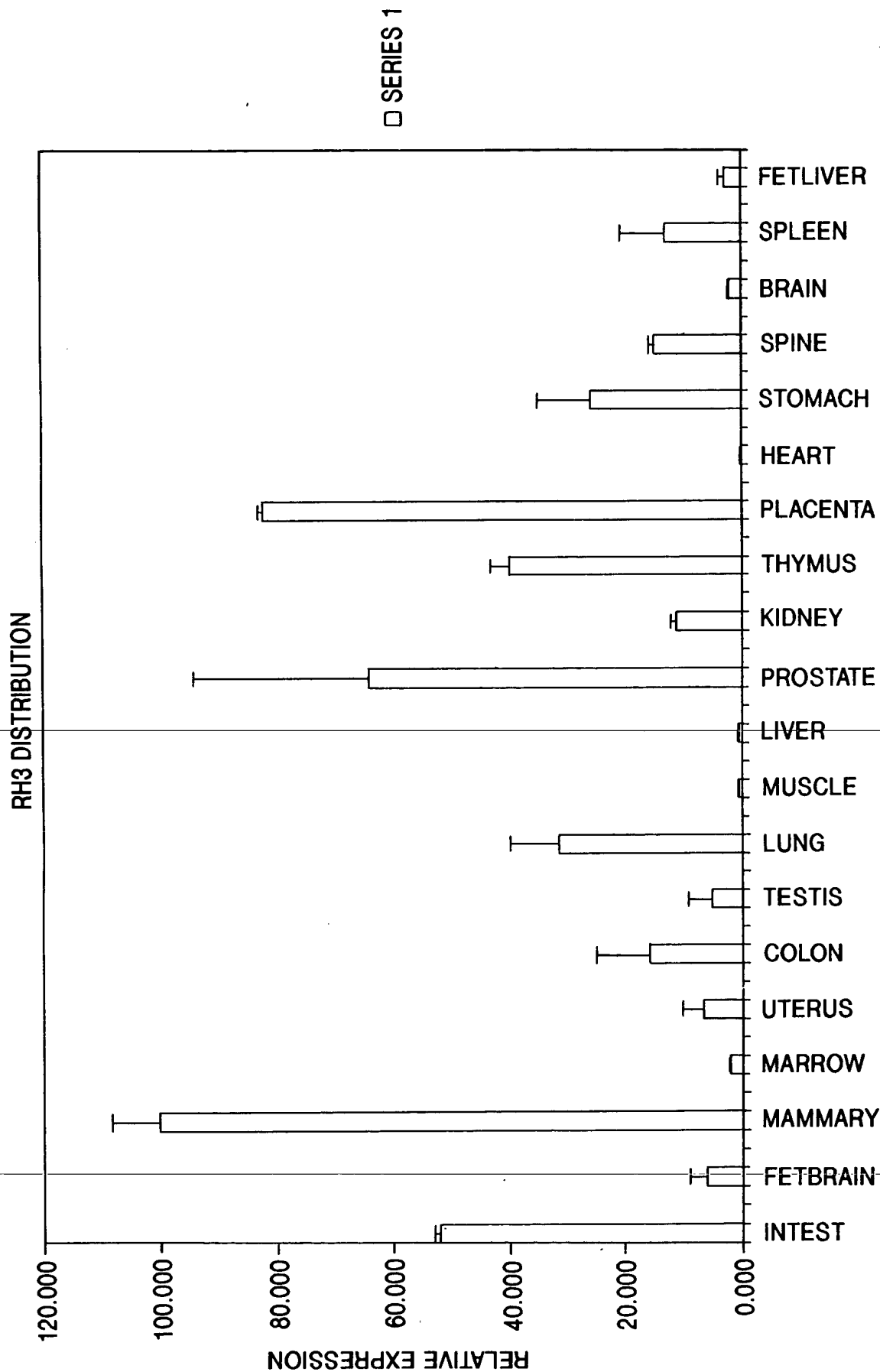
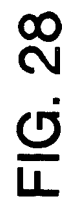


FIG. 27



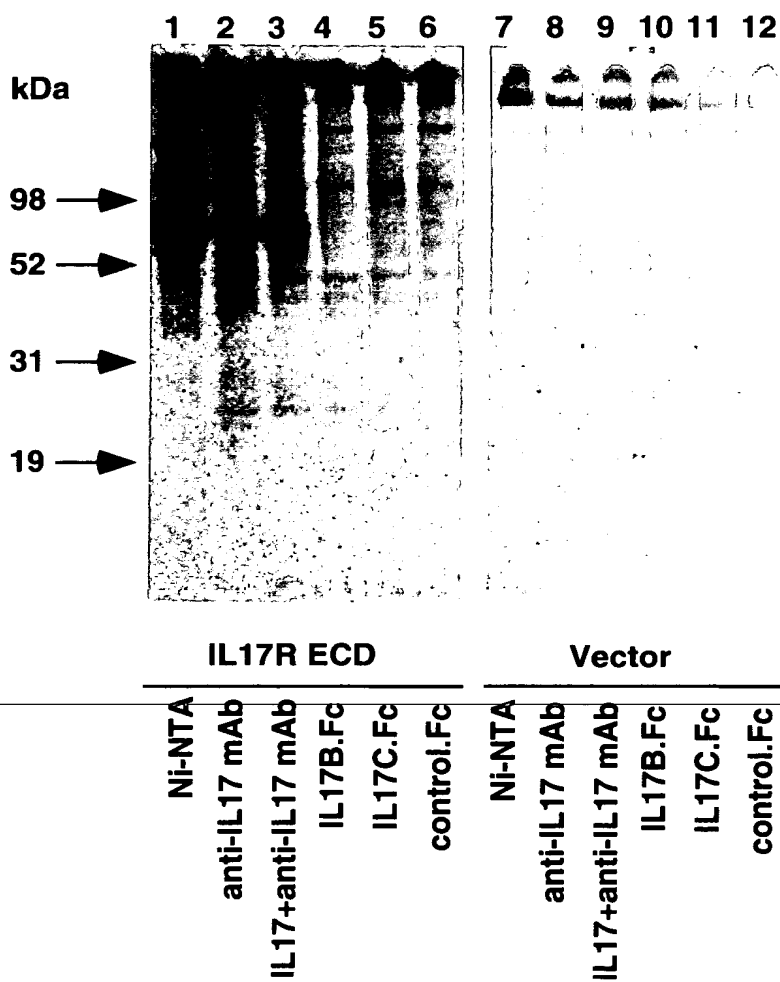


FIG. 29A

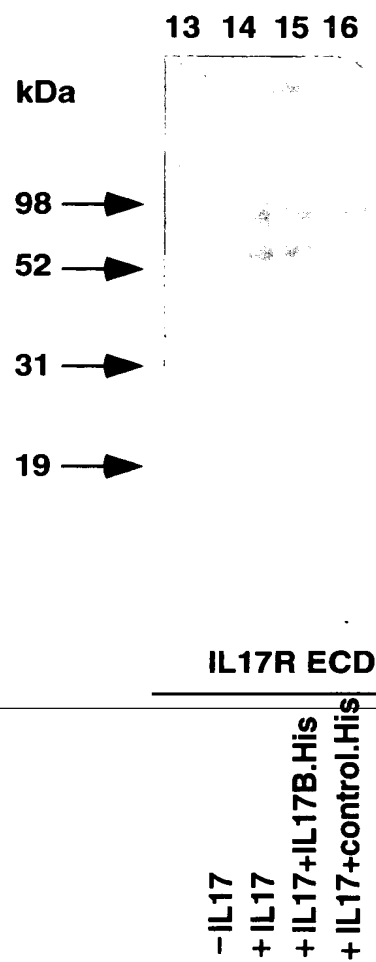


FIG. 29B

FIG. 30

205 FEB 25 1960

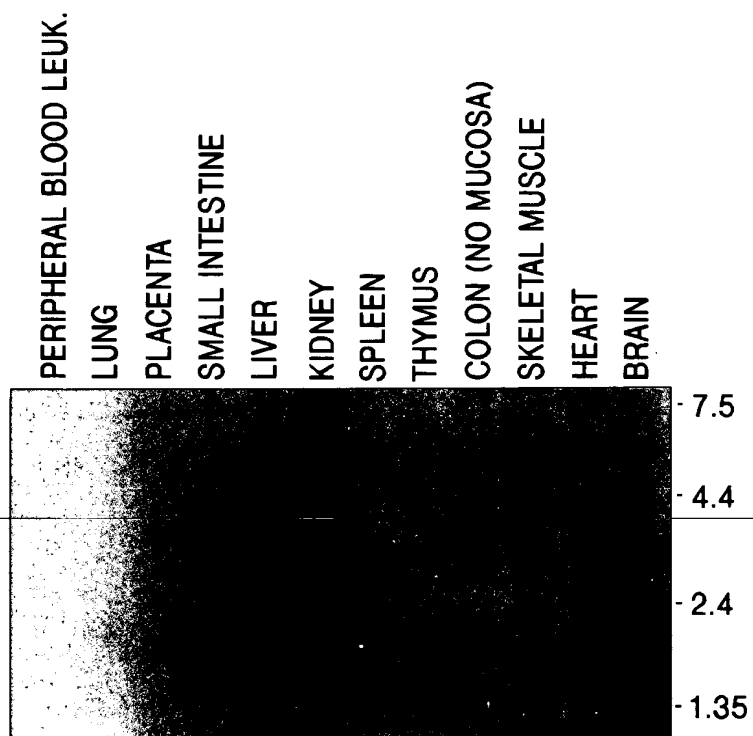


FIG. 31A

10000457.034506

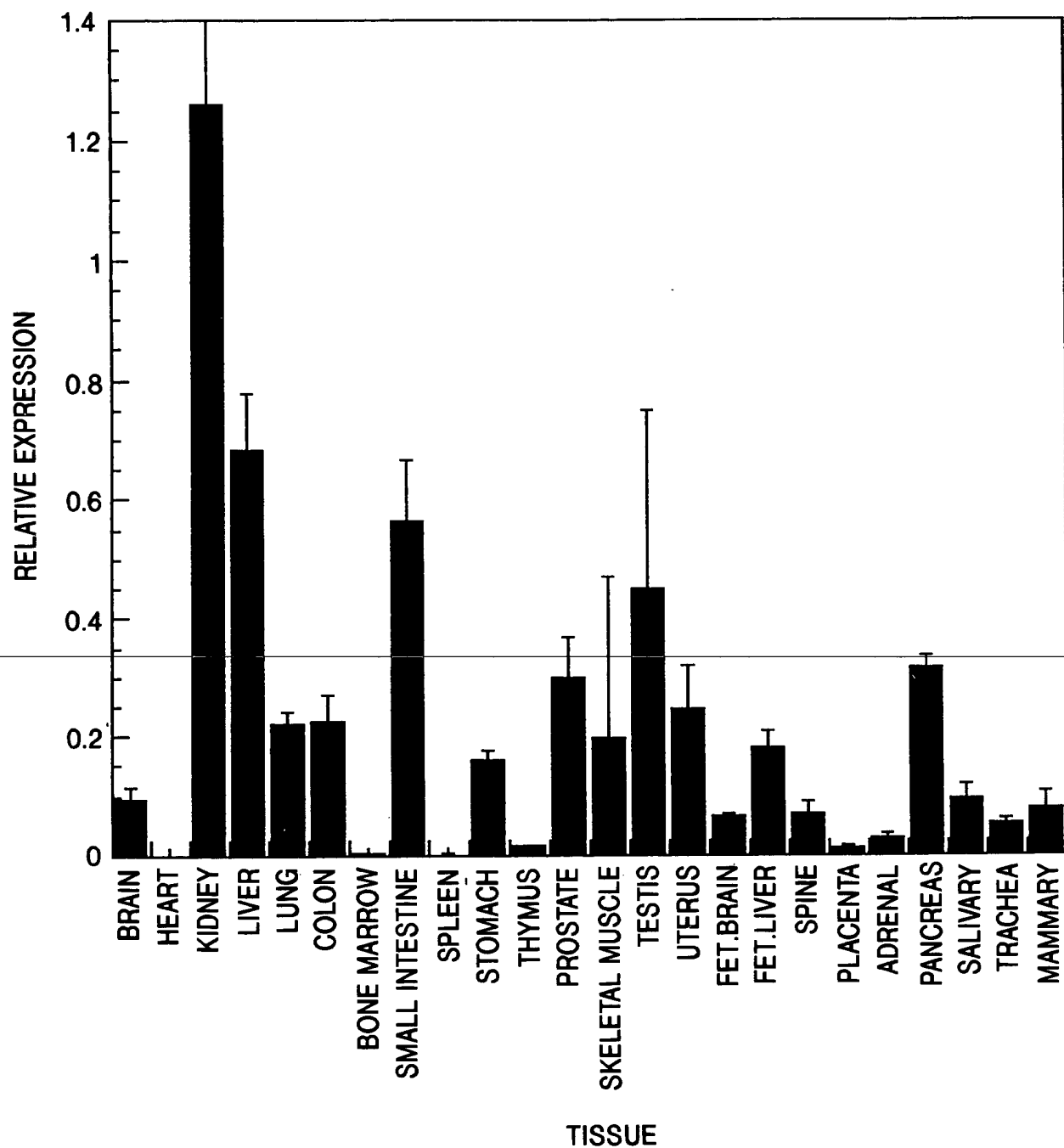


FIG. 31B

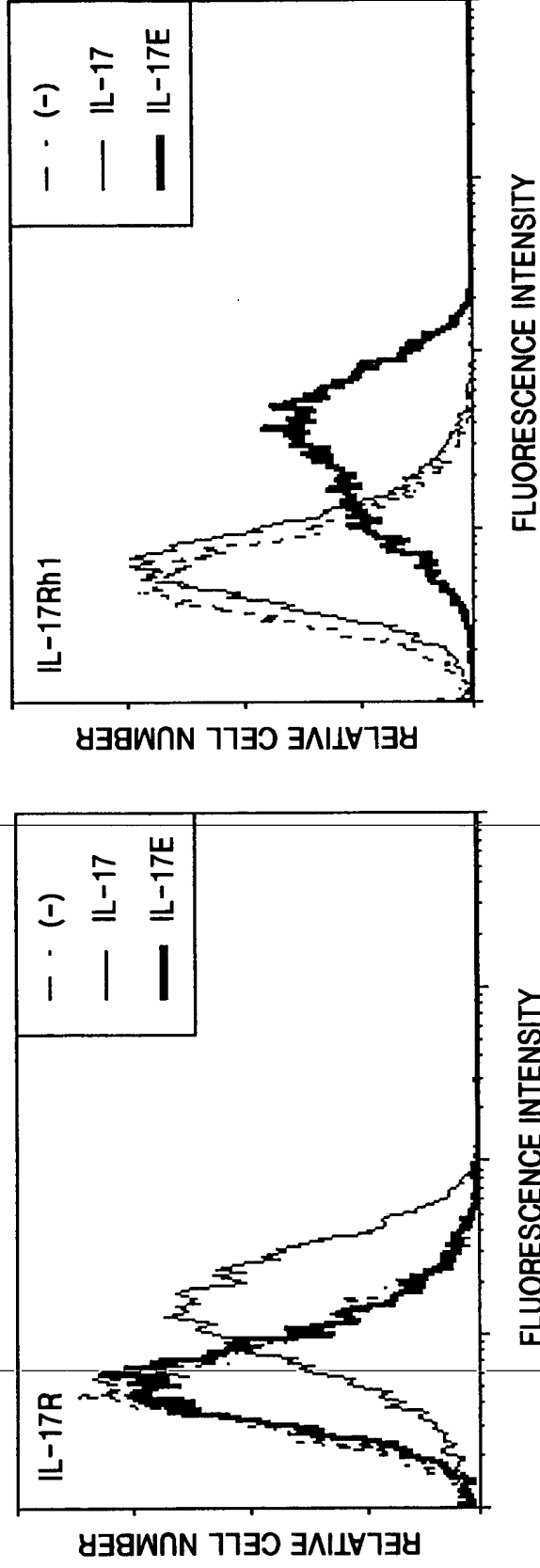
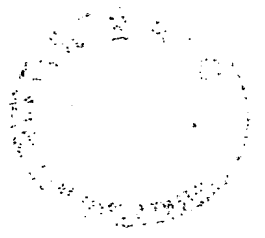


FIG. 32A



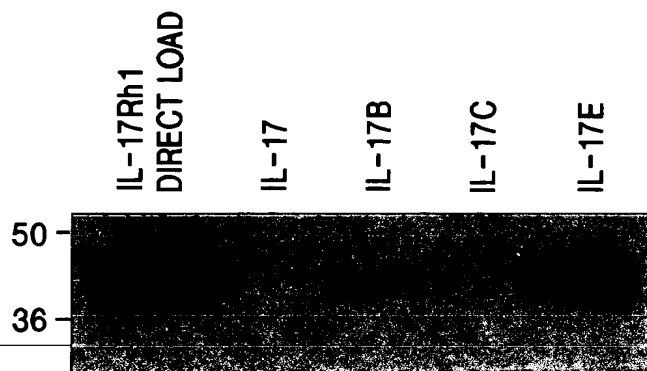
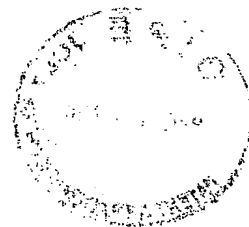


FIG. 32B



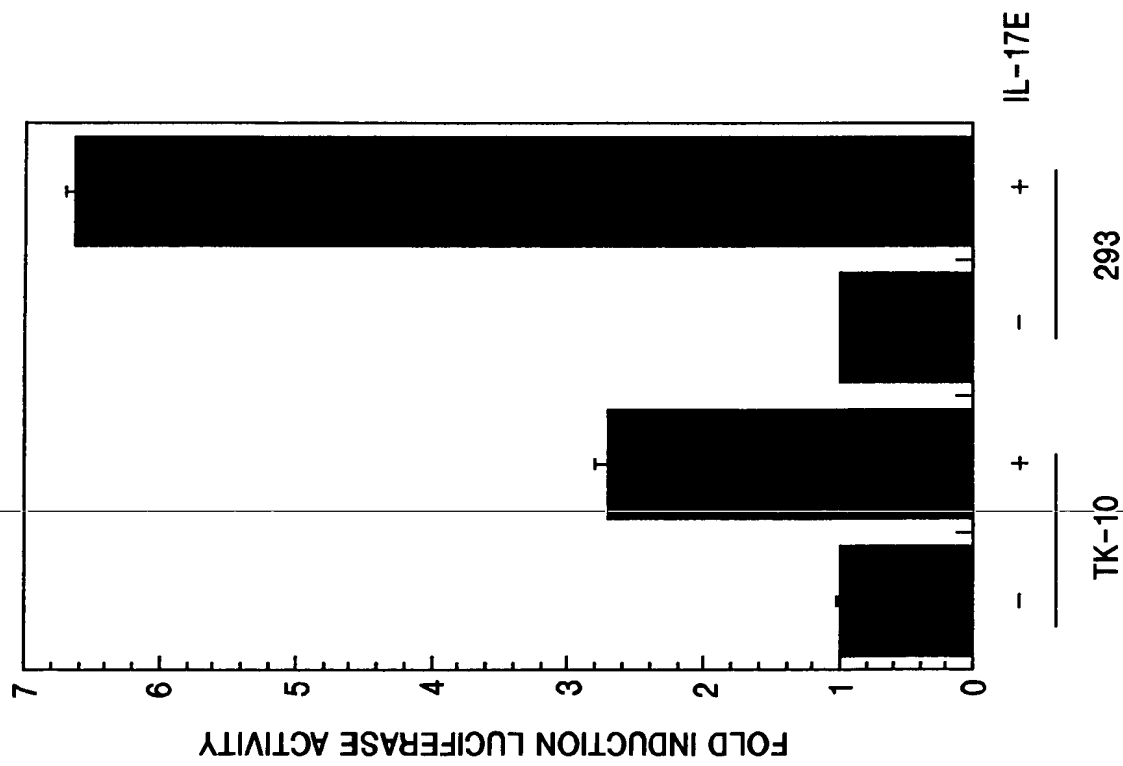


FIG. 33A

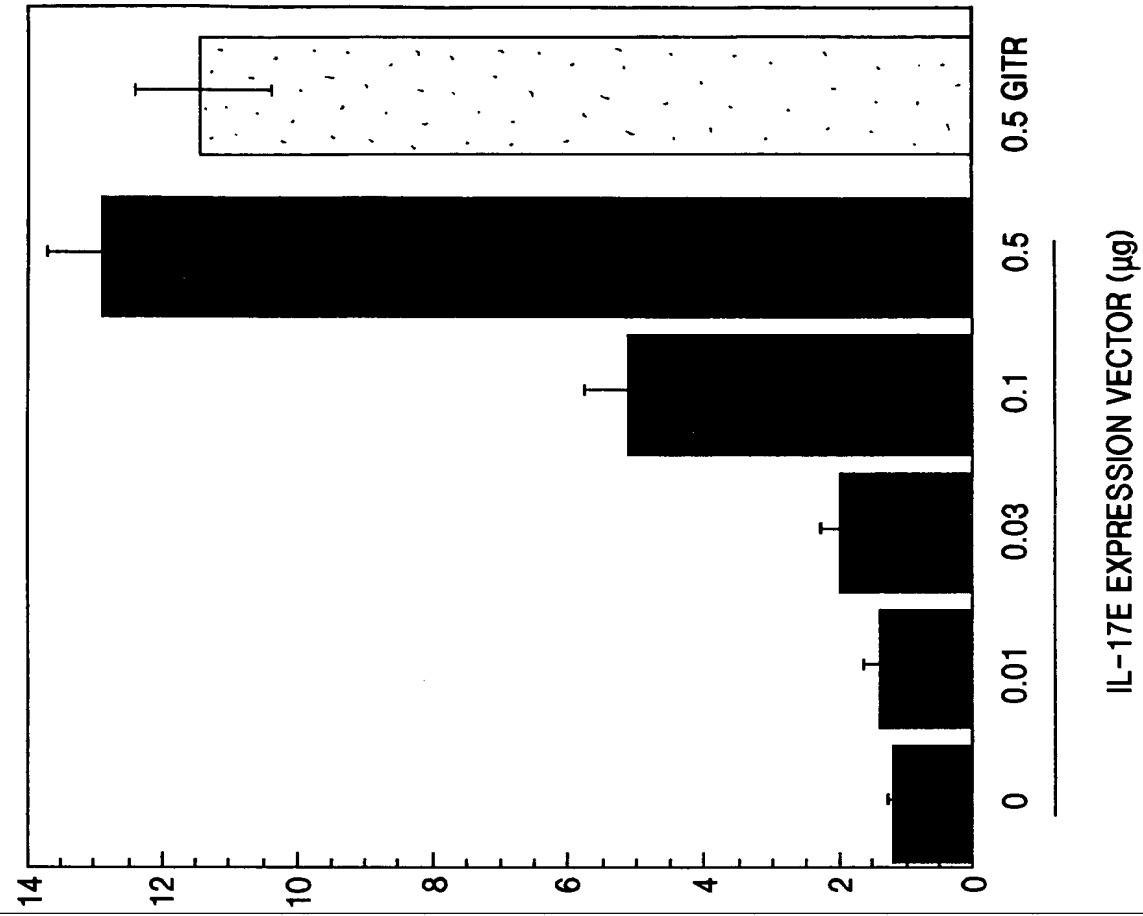


FIG. 33B

10000457-034502

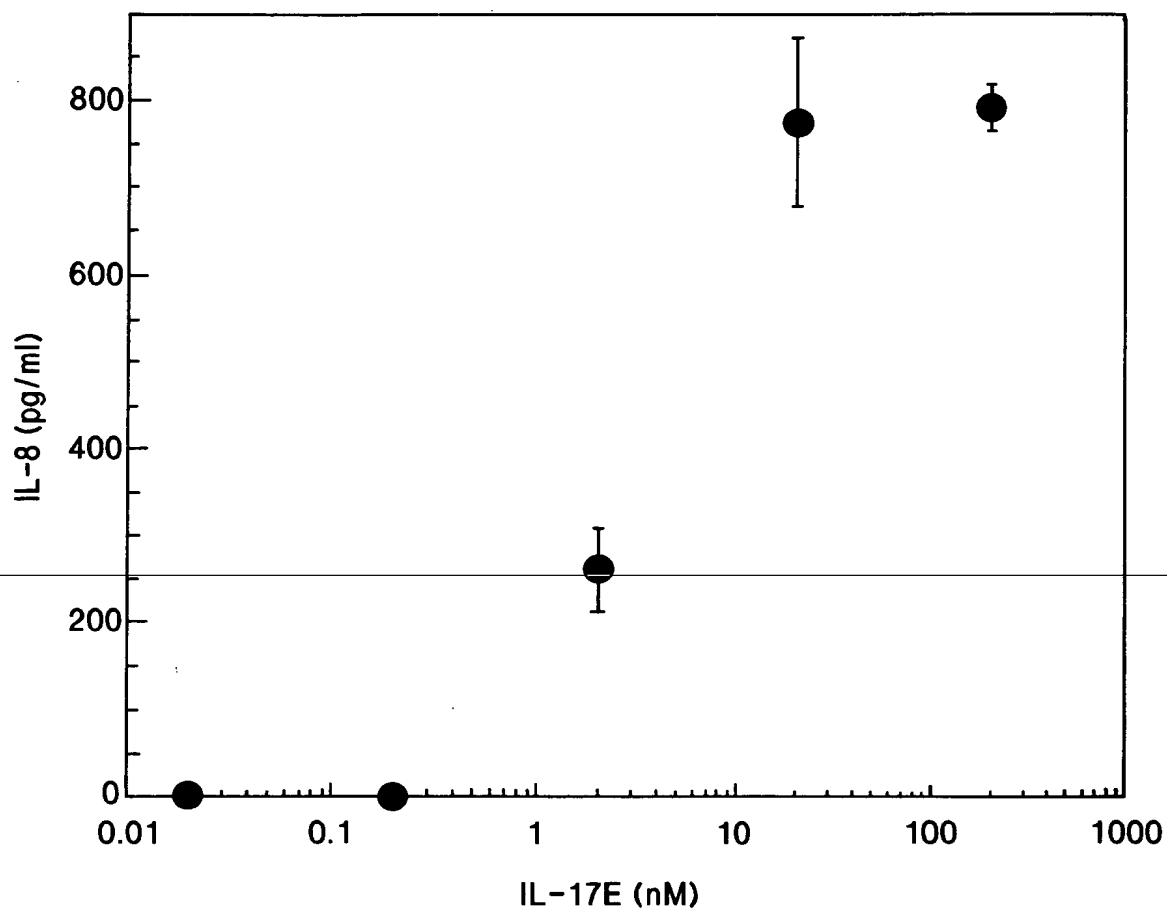
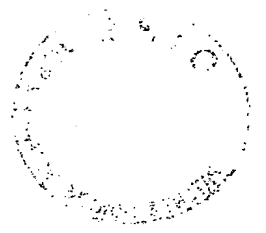


FIG. 34



IL-17 FAMILY OF CYTOKINES HAS COMPLEX PATTERN
OF OVERLAPPING RECEPTOR-LIGAND SPECIFICITIES

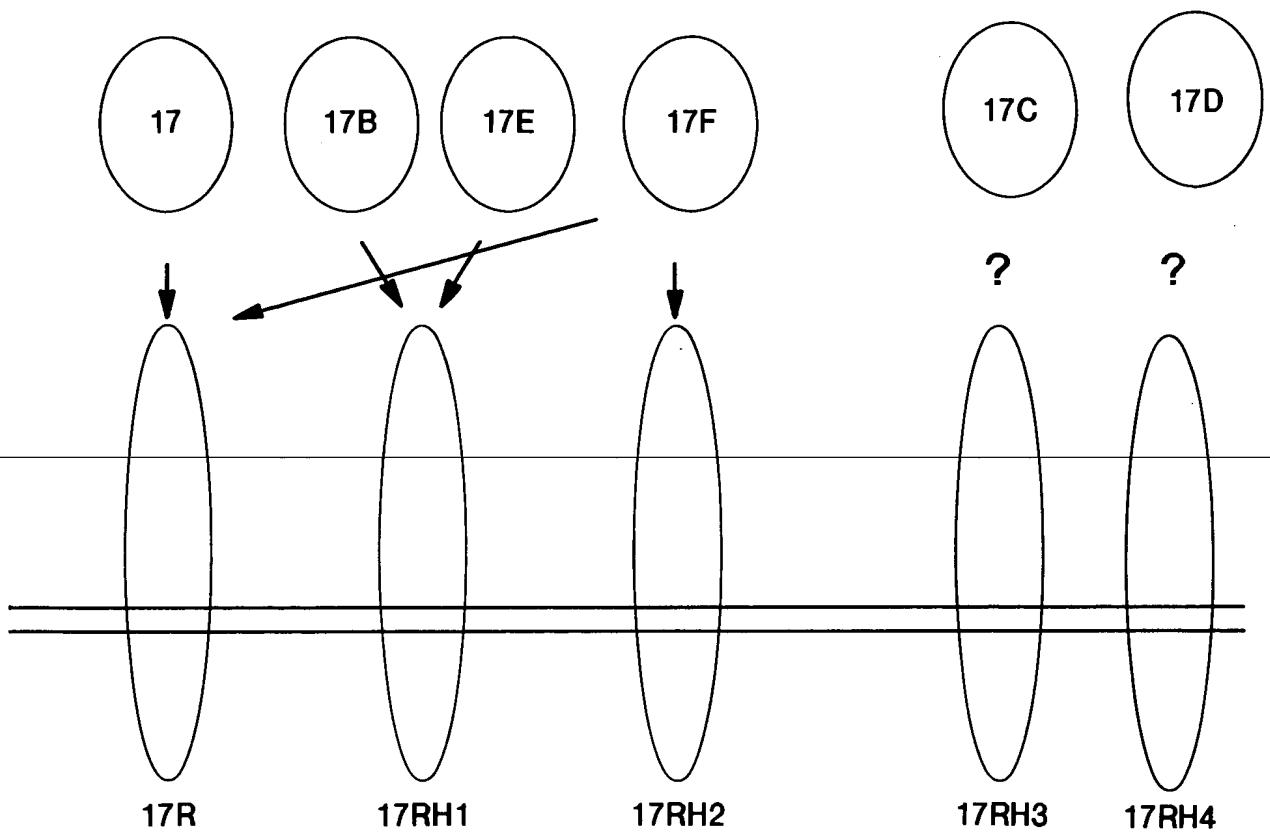


FIG. 35

10000157 634506

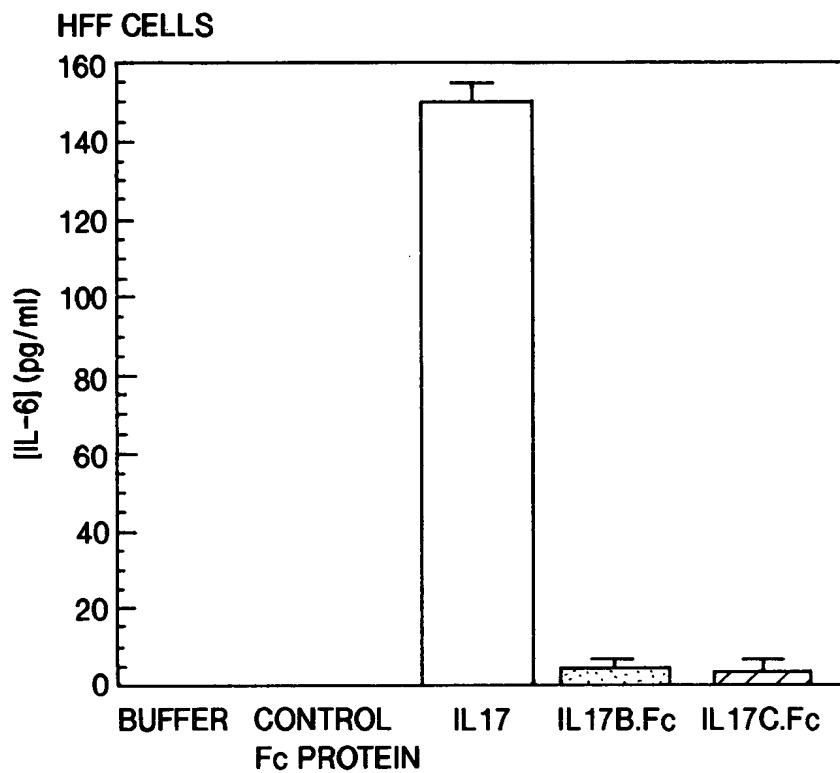


FIG. 36A

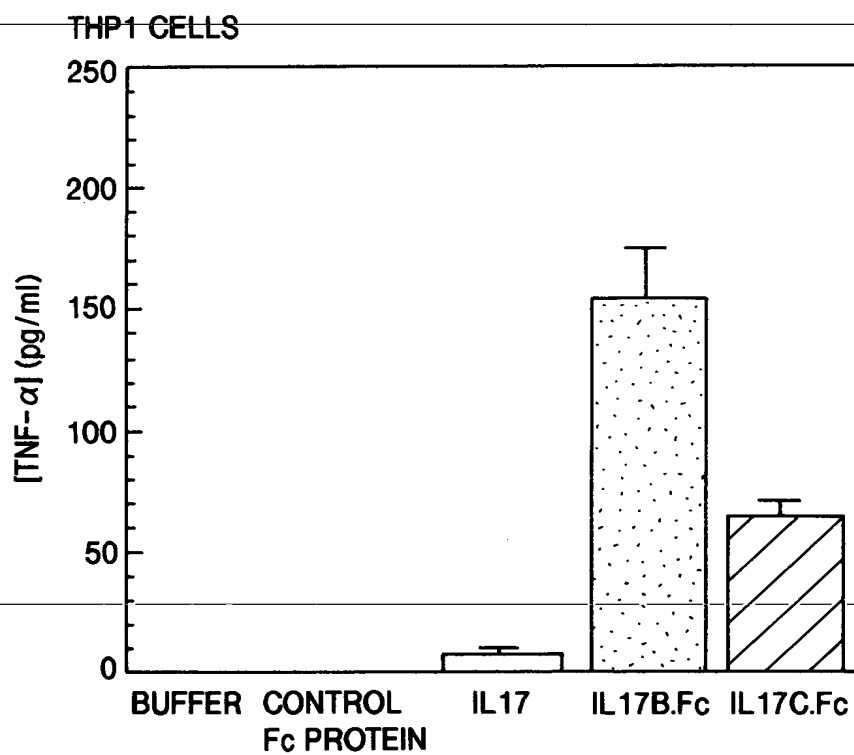


FIG. 36B

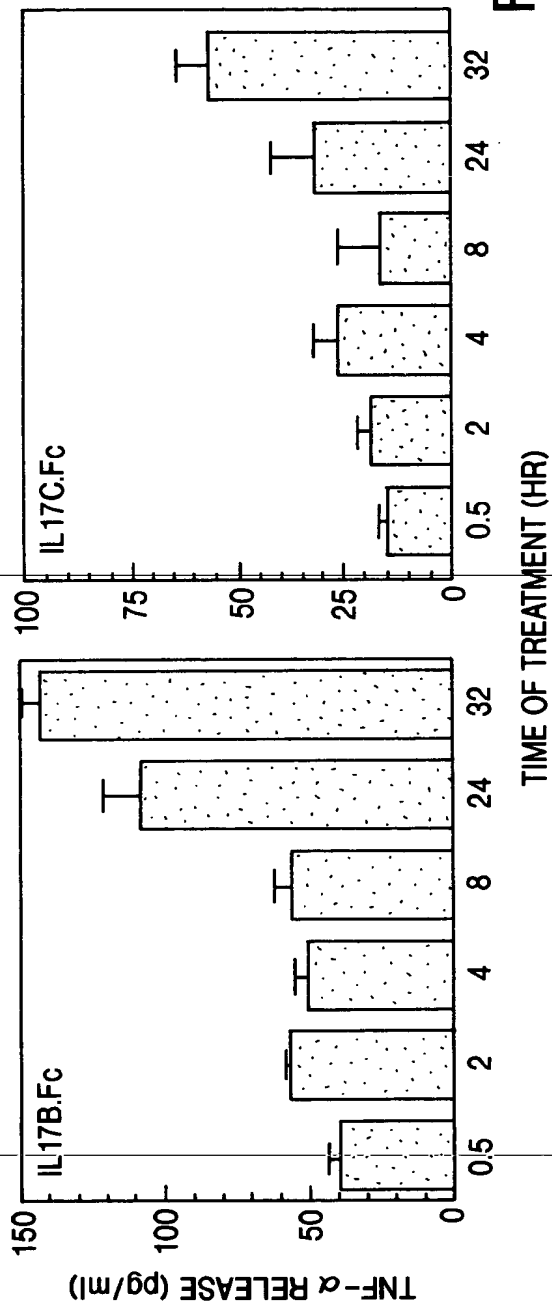


FIG. 37A

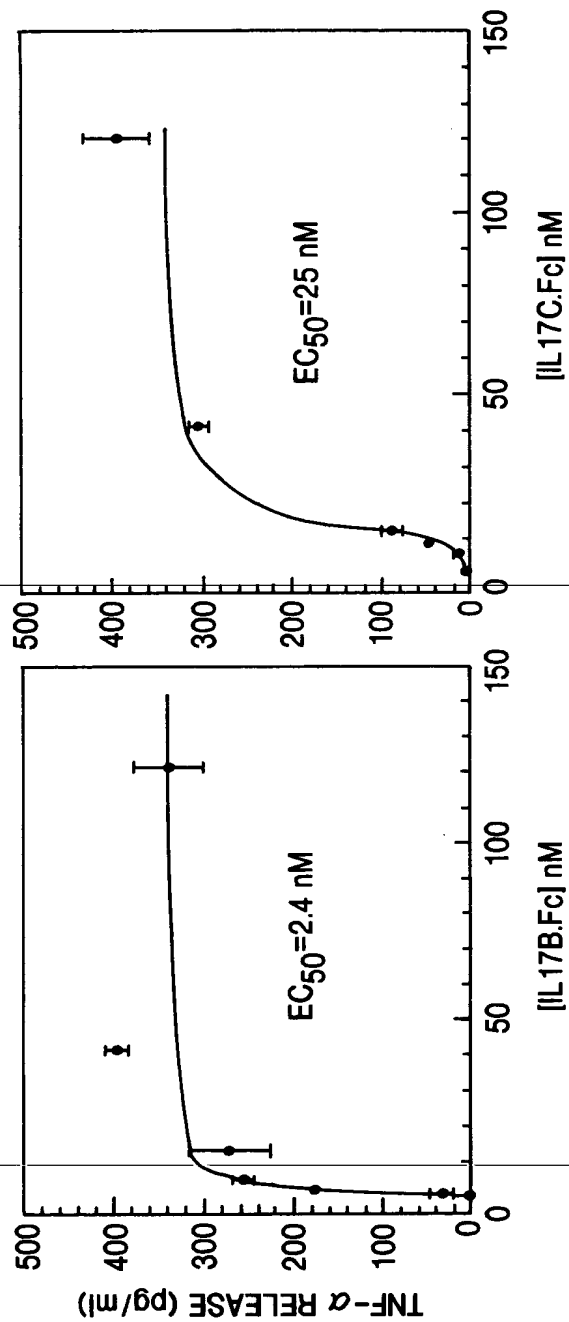


FIG. 37B

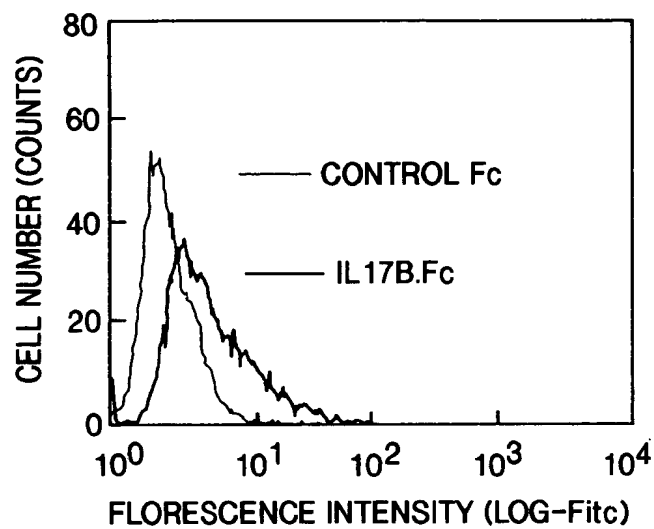


FIG. 38A

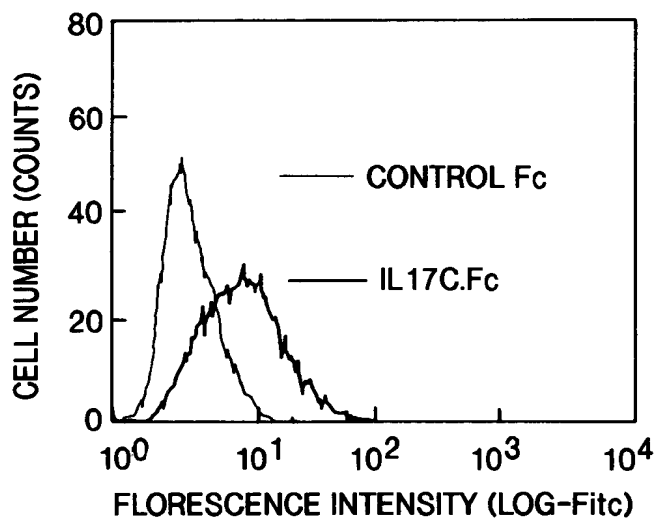


FIG. 38B

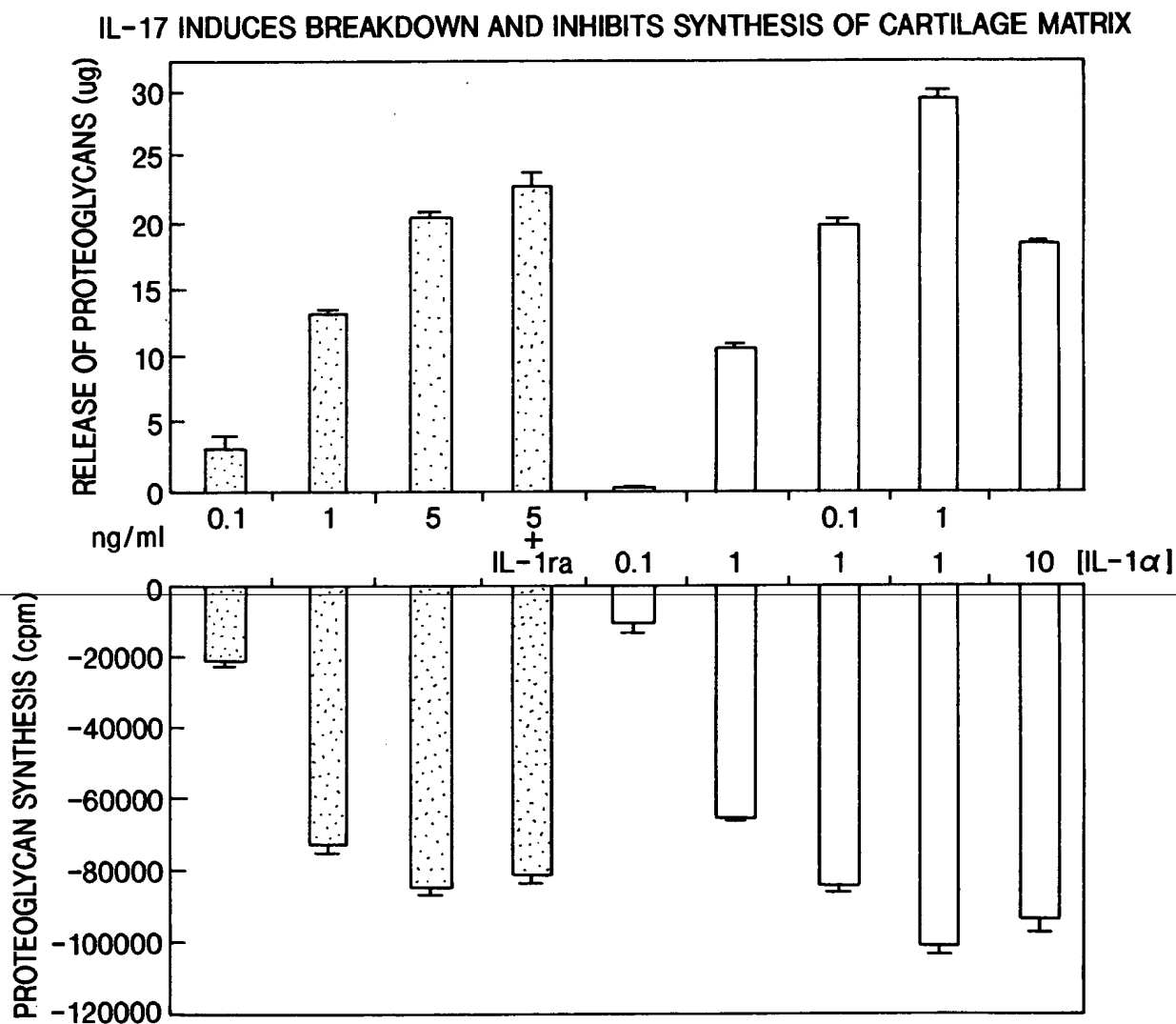


FIG. 39

IL-17 INCREASES BASAL AND IL-1 α -INDUCED NITRIC OXIDE RELEASE

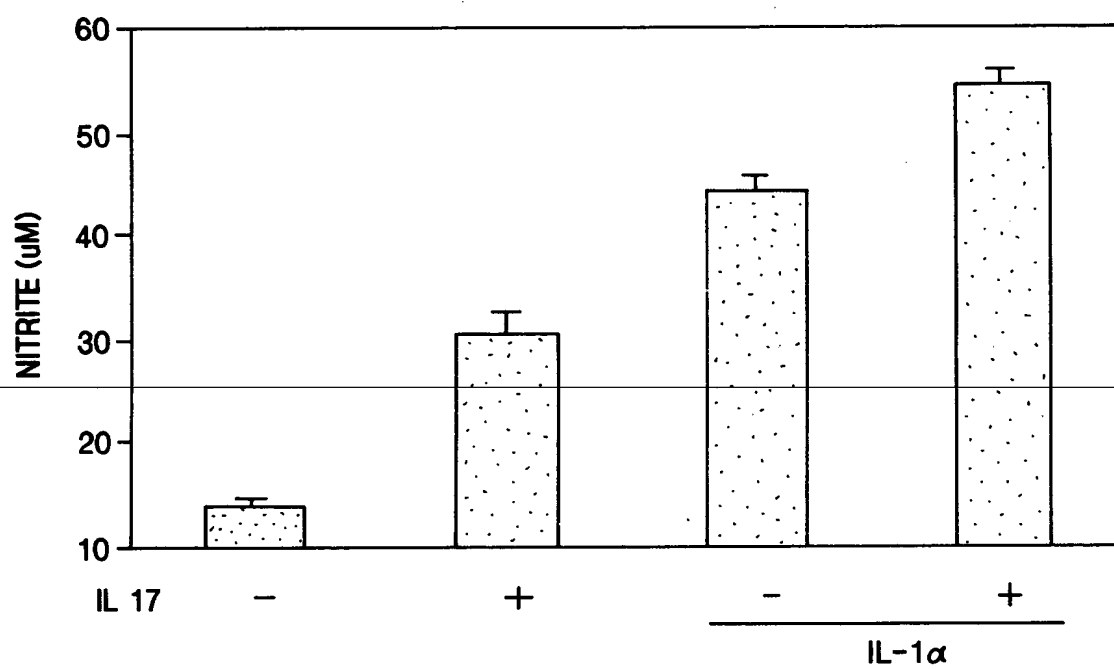


FIG. 40

INHIBITION OF NITRIC OXIDE RELEASE DOES NOT BLOCK THE DETRIMENTAL
EFFECTS OF IL 17 ON MATRIX BREAKDOWN OR SYNTHESIS

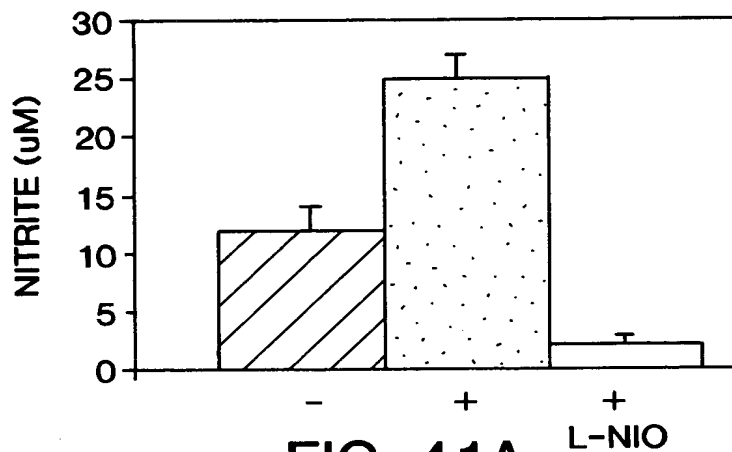


FIG. 41A

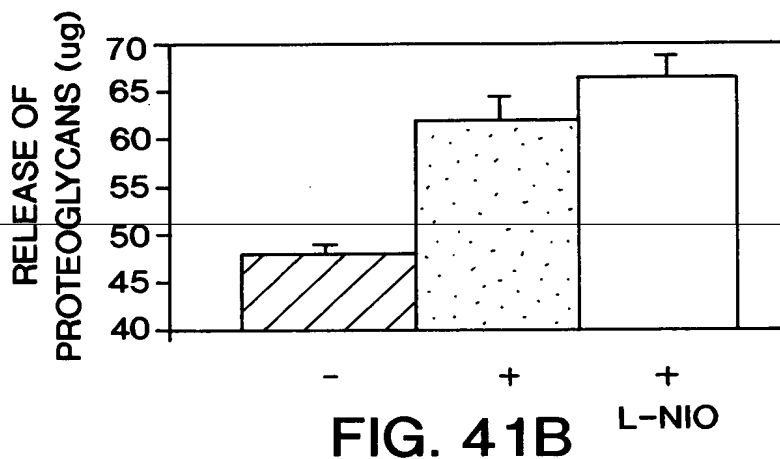


FIG. 41B

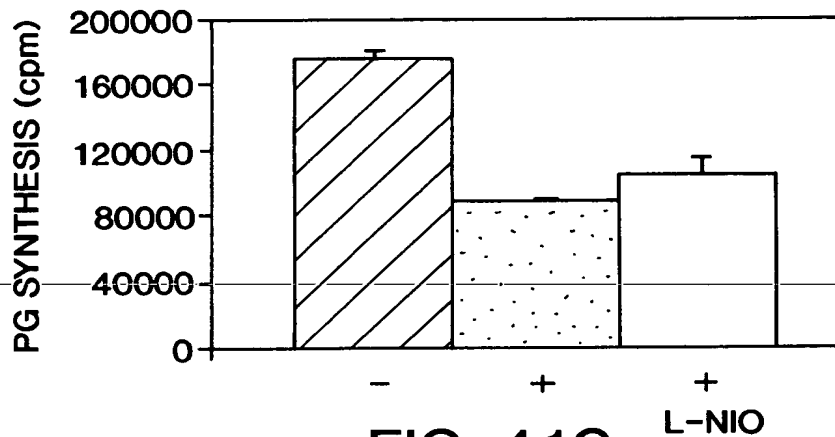


FIG. 41C

20070425T0001

INHIBITION OF NO RELEASE ENHANCES IL1- α -INDUCED
MATRIX BREAKDOWN BUT NOT MATRIX SYNTHESIS

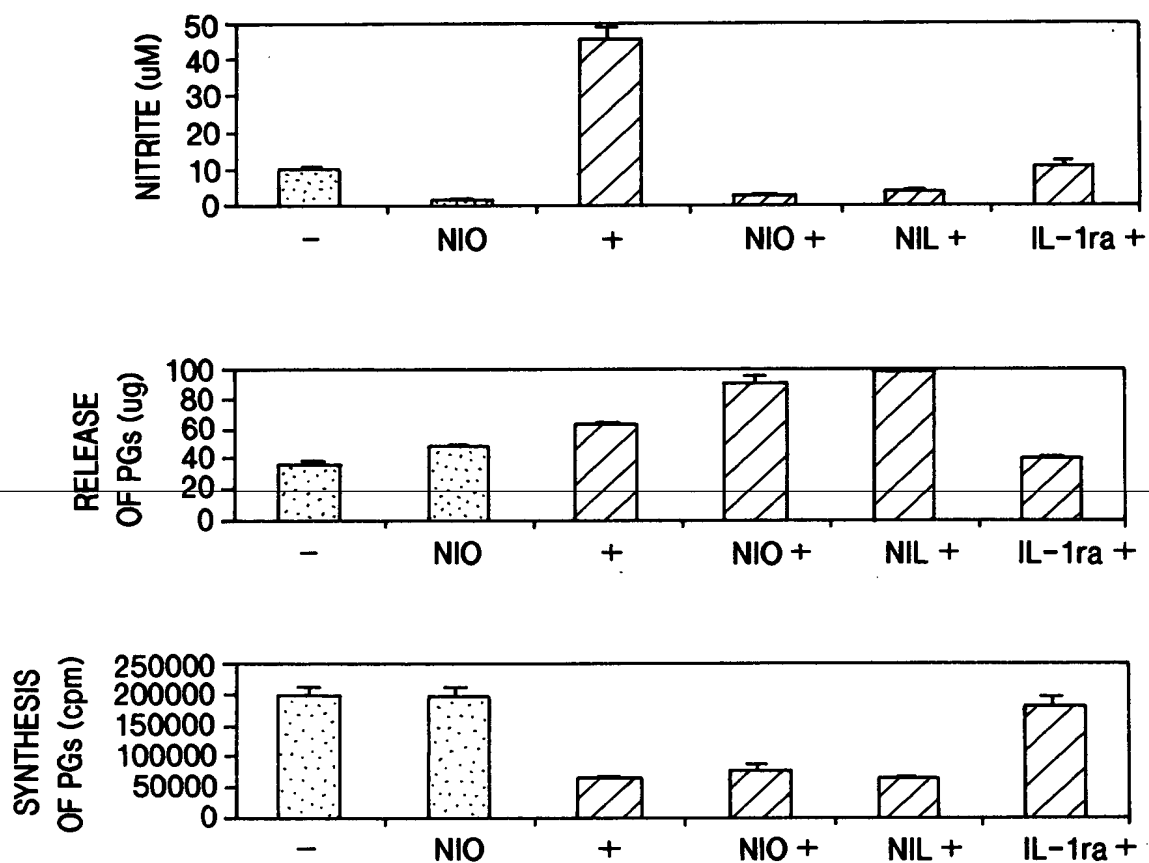


FIG. 42

IL-17C DETRIMENTAL EFFECTS ON ARTICULAR CARTILAGE

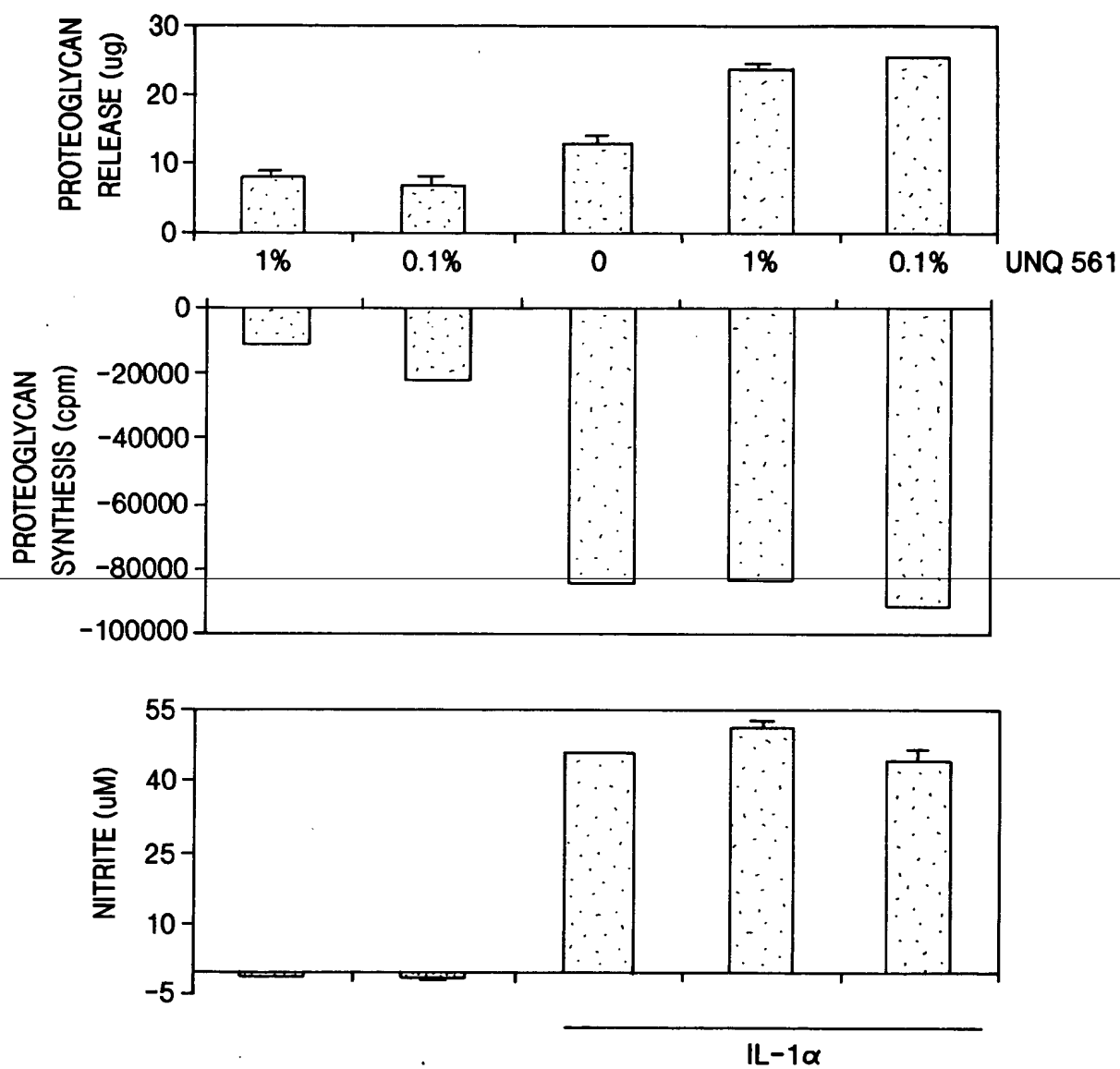


FIG. 43

INFLAMMATORY BOWEL DISEASE:
EXPRESSION OF IL-17 FAMILY IN MOUSE MODEL OF IBD

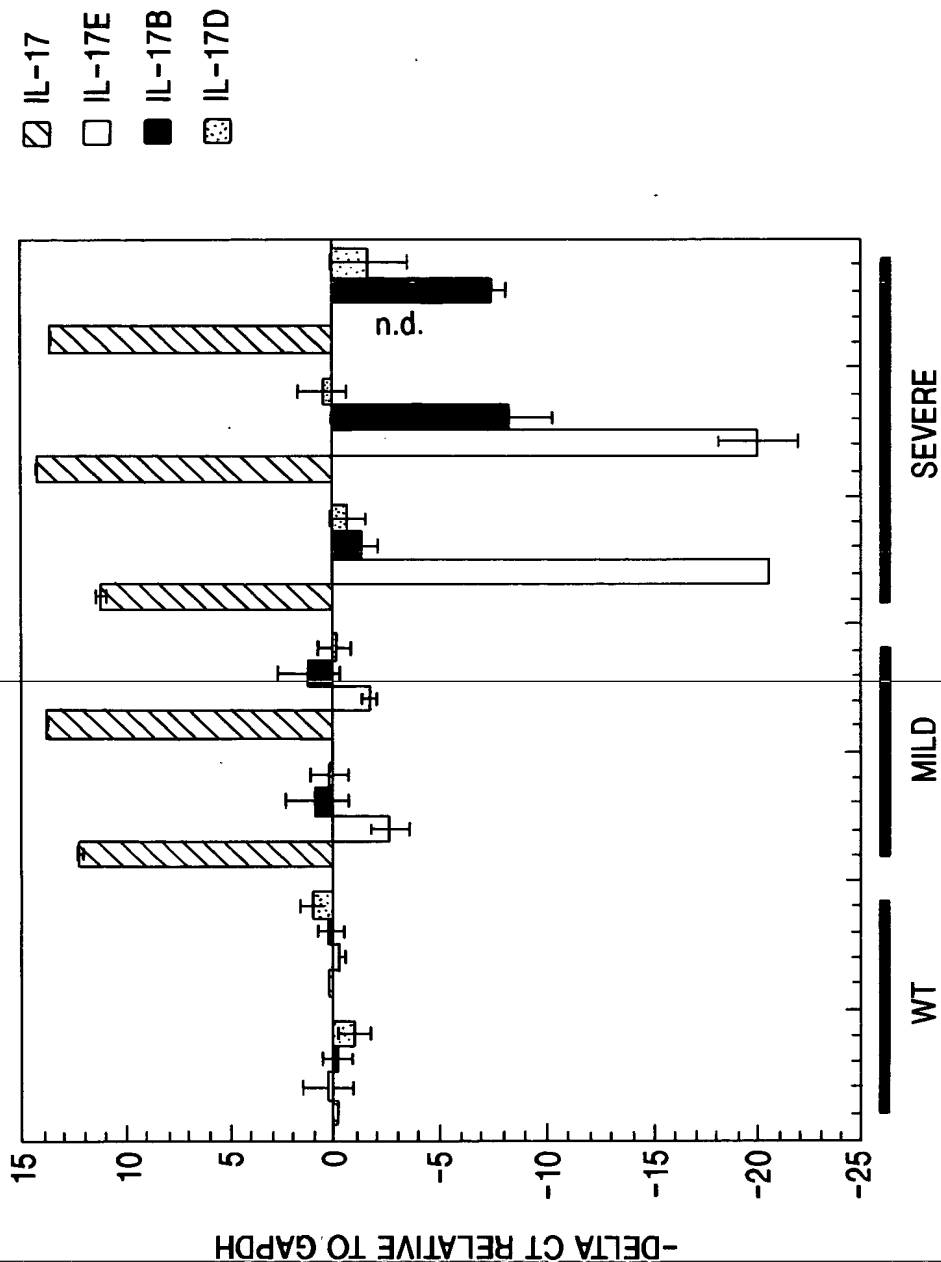


FIG. 44

IL-17D, PRESENT IN BRAIN, DECREASES RAPIDLY FOLLOWING STROKE

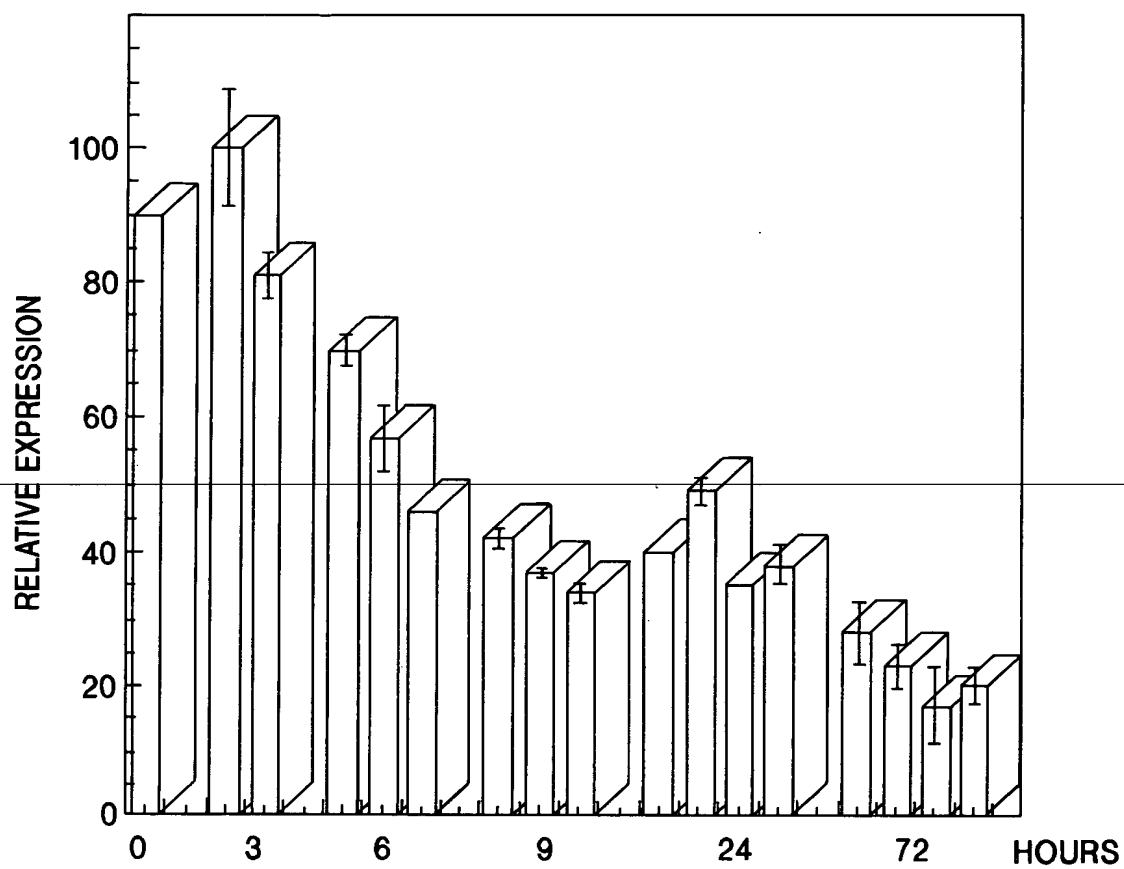


FIG. 45

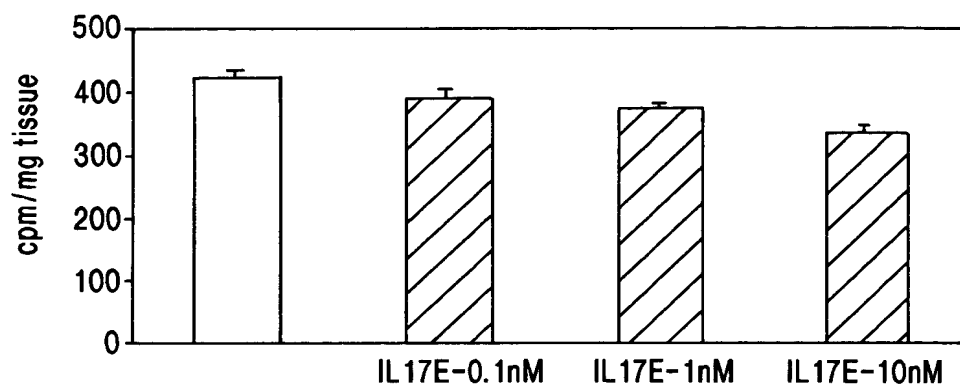


FIG. 46A

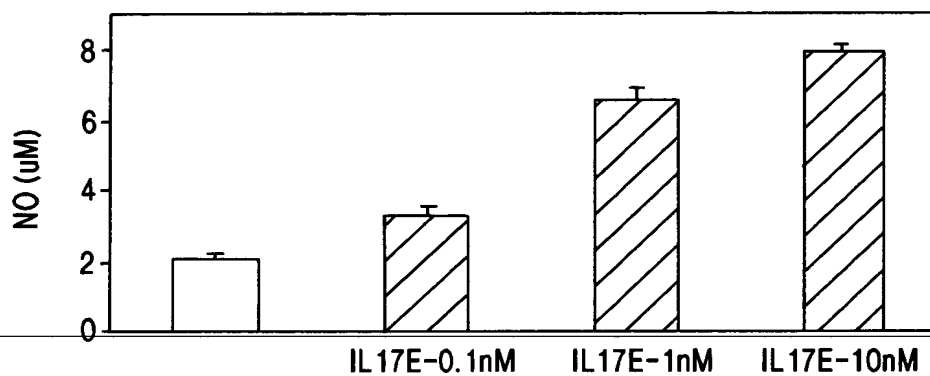


FIG. 46B

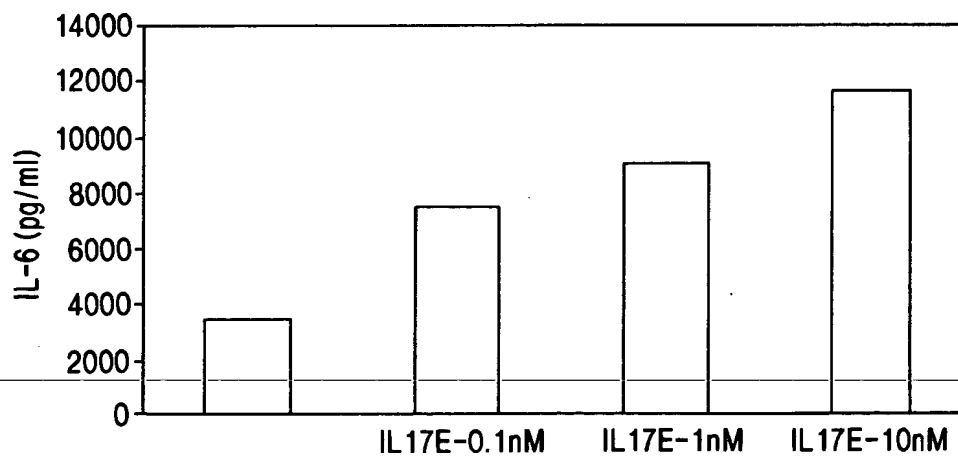


FIG. 46C

1000037.03450T
added 5/5/00

FIG. 47A

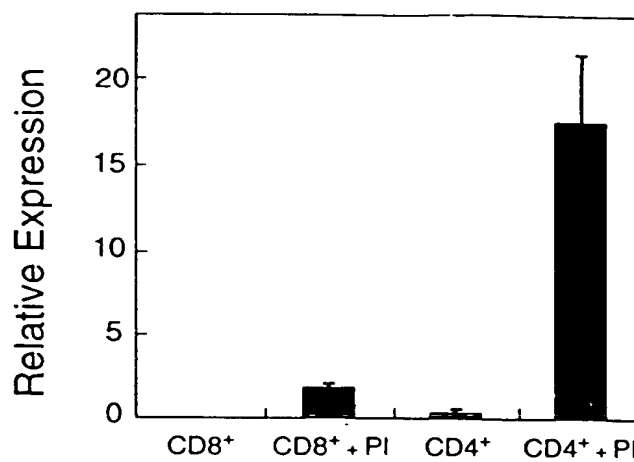


FIG. 47B

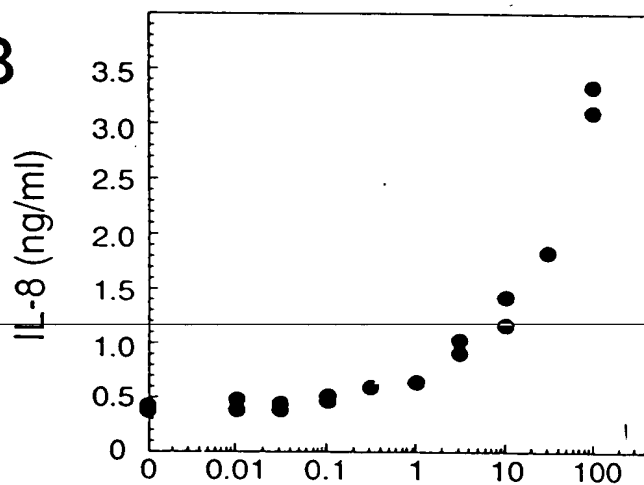
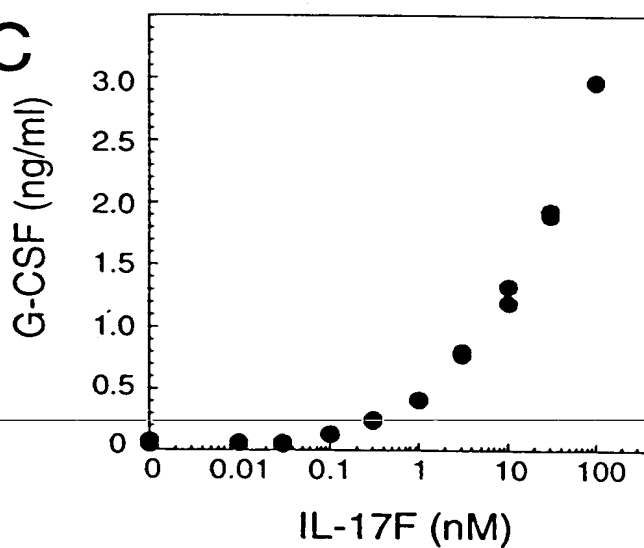


FIG. 47C



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Porcine

Matrix
Breakdown

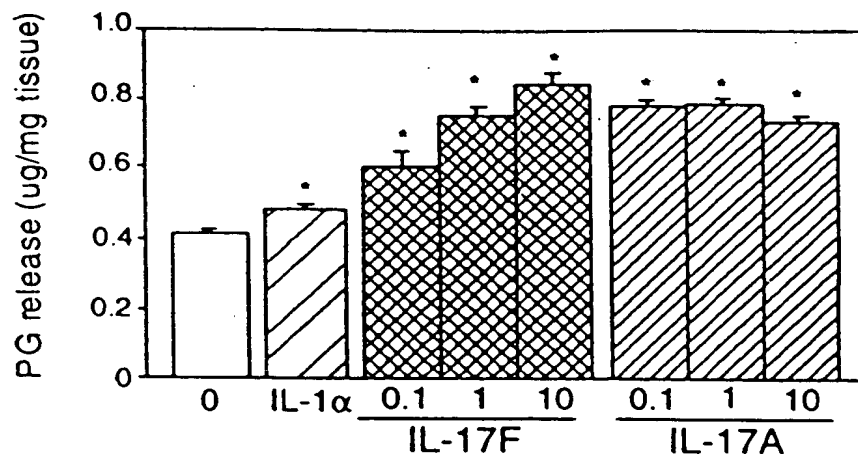


FIG. 48A

Matrix
Synthesis

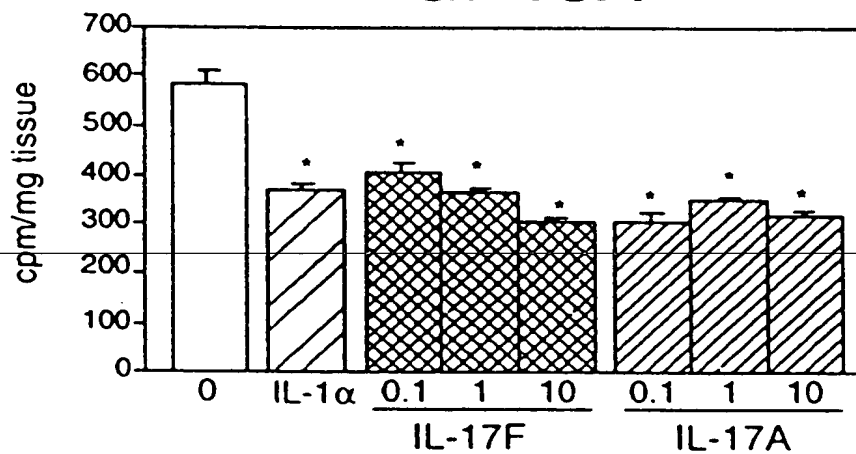


FIG. 48B

IL-6
production

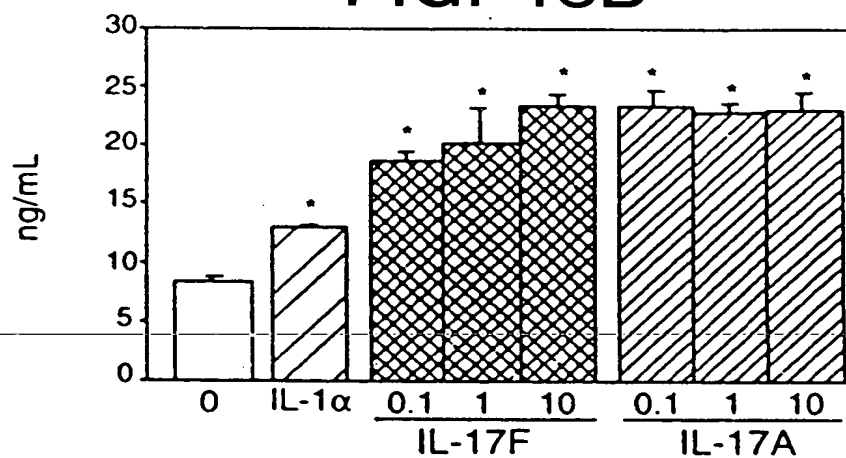


FIG. 48C

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Human

Matrix Breakdown

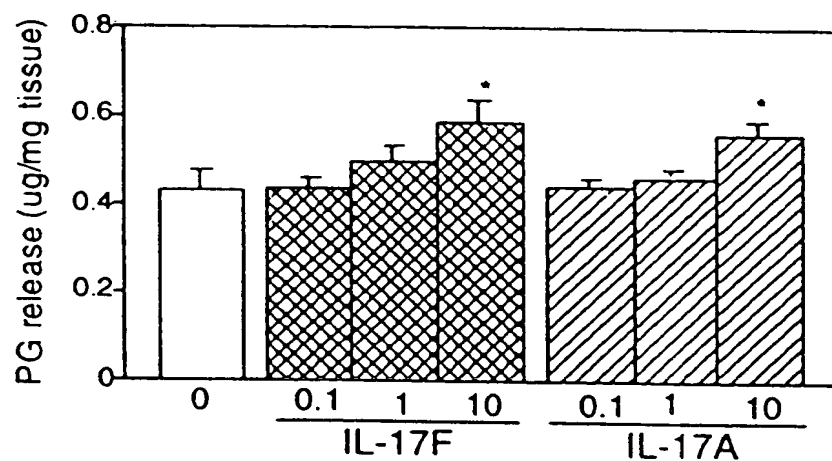


FIG. 48D

Matrix Synthesis

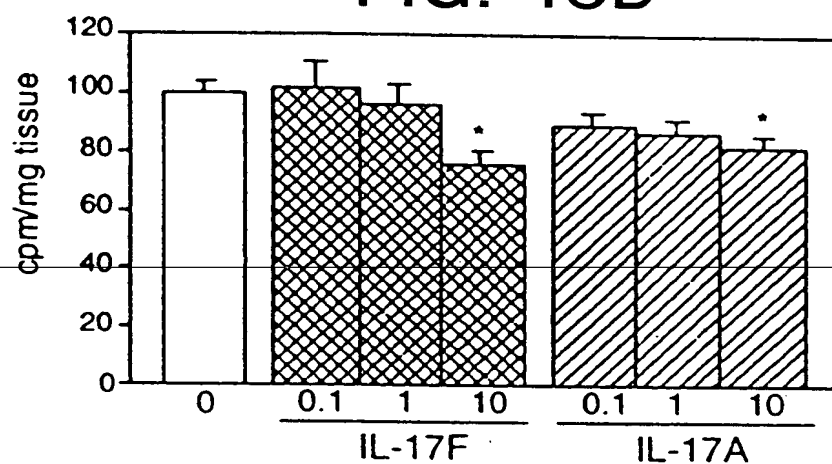


FIG. 48E

IL-6 production

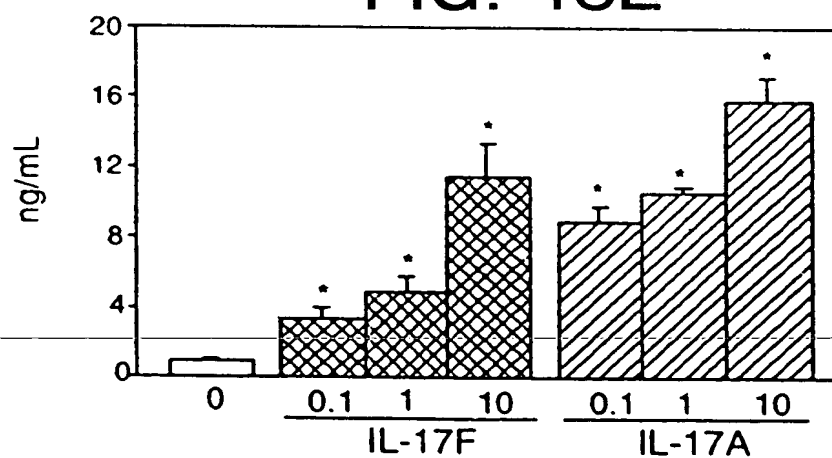


FIG. 48F

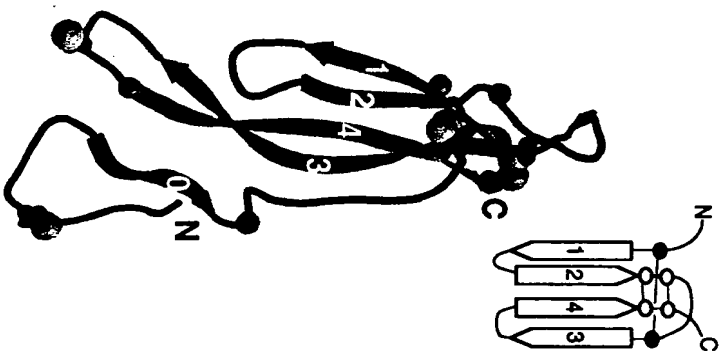


FIG. 49A

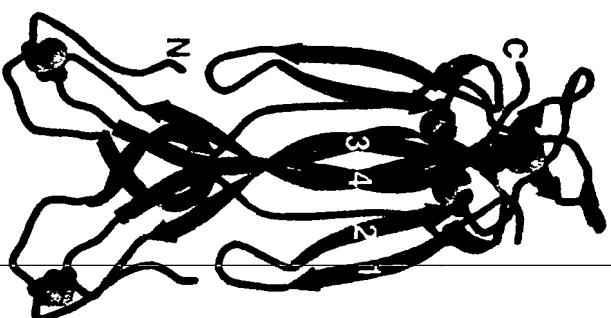


FIG. 49B

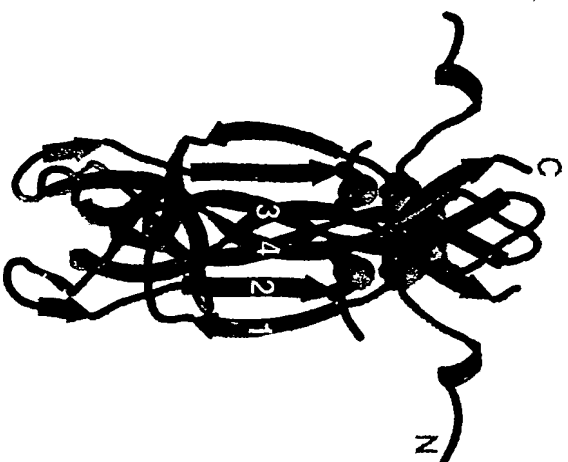


FIG. 49C

*

IL-17F	.....	.....	.....	....RKIPKVG	HTFFQKPES	17
IL-17A	.....	.....	.....	.....IVKAG	ITIPRNP.G	14
IL-17B	.....QPRS	PKSKRKQGR	PGPLAPGPHQ	VPLDLVSRMK	PYARMEEYER	44
IL-17C	HHDPSLRGHP	HSHTGTPHYS	AEELPLGQAP	PHLLARGAKW	GQALPVALVS	50
IL-17E	.....	.....	.....YS	HWPSGCPSKG	QDTSEELLRW	22

0

IL-17F	PPVPGG....	....SMKLDI	GIINENQRV	MSRNIESRST	PWNYTVTWD	59
IL-17A	PNSDKNFPR	TVMVNLNIHN	RNTNTN..PK	RSSDYNRST	PWNLHRNED	62
IL-17B	NIEEMVAQLR	..NSSELAQR	KCEV....NL	QLWMSNKRSL	PWGYSINH	88
IL-17C	SLEAASHRGR	..HERPSATT	QFVLRPEEV	LEADTHQRSI	PWRYRVDTD	98
IL-17E	STVPVPPLP	..ARPNRHPE	S-RASE....	.DGPLNSRAI	PWRYELDRD	65

2

IL-17F	PNRYPSEVVQ	AQ-RNLG-IN	A..QGKEDIS	MN VPI.QQE	TLVVRRKHQG	106
IL-17A	PERYPSVIWE	AK-RHLG-IN	A..DGNVDYH	MN VPI.QQE	ILVLRREPPH	109
IL-17B	PSRIPVDLPE	AR-LCLG-VN	PF.TMQEDRS	MV VPI.FSQ	VPVRRR...L	133
IL-17C	EDRYPOKLAF	AE-L-RG-ID	AR.TGRETA	LN VRL.LQS	LLVLR...RP	144
IL-17E	LNRLPQDLYH	AR-L-PH-VS	LQTGSHMDPR	GN ELLYHNQ	TVFYRRP...	112

4

IL-17F	*SV.....	....SFQLEK	VL..VTVGCT	CVTPIVHHVQ	...	133
IL-17A	*PN.....	....SFRLEK	IL..VSVGCT	CVTPIVHHVA	...	136
IL-17B	*PPPPRTGP.	....QRQRA	VMTIAGCT	CIF.....	...	160
IL-17C	*SRDGSGLPT	PGAFAFHTEF	IH..VPIVCT	CV.LPRSVAA	ALE	184
IL-17E	*HGEKGTHKG	....YCLER	RLYRVSLACV	CVRPRVMG..	...	145

FIG. 50

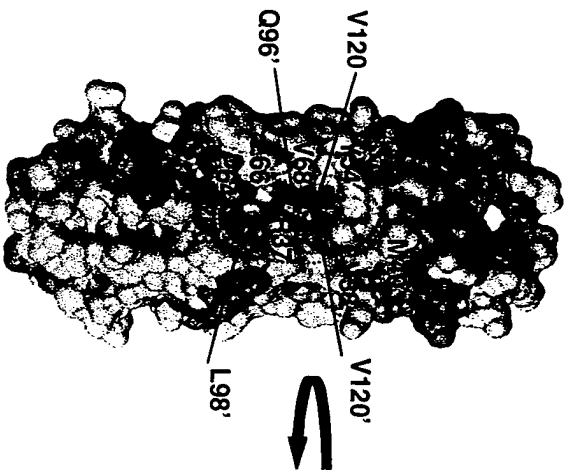


FIG. 51A

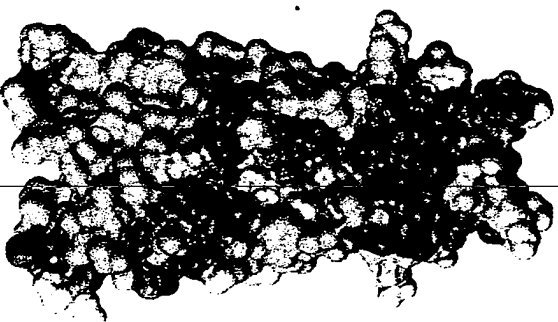


FIG. 51B



FIG. 51C



FIG. 52A

FIG. 52B



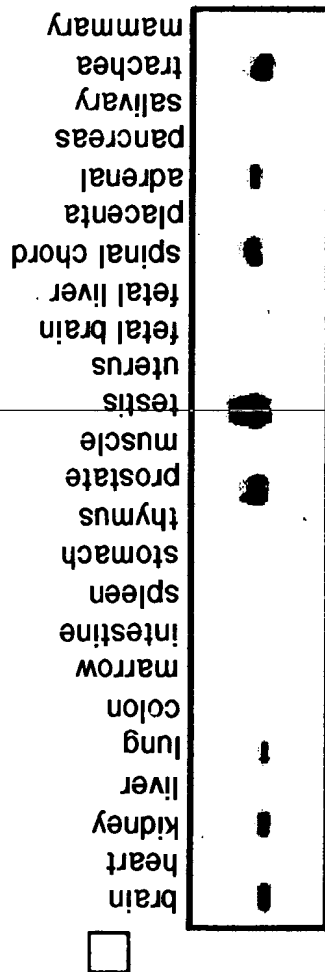
FIG. 52C

IL-17E is highly conserved between human and mouse

mIL-17E	1	-----	VAF	L	A	M	I	V	G	T	H	T	V	S	L	R	I	Q	E	G	C	S	H	L	P	S	C	C	P	S																					
hIL-17E	1	M	R	E	R	P	R	L	G	E	D	S	S	L	I	S	L	F	L	Q	V	V	A	F	L	A	M	V	M	G	T	H	T	-----	Y	S	H	W	P	S	C	C	P	S							
mIL-17E	35	K	E	Q	E	P	P	E	E	W	L	K	W	S	S	A	S	V	S	P	P	E	P	L	S	H	T	H	A	E	S	C	R	A	S	K	D	G	P	L	N	S	R	A	I	S	P	W	S	Y	
hIL-17E	43	K	G	Q	D	T	S	E	E	L	L	R	W	S	T	V	P	V	P	P	L	E	P	A	R	P	N	R	H	P	E	S	C	R	A	S	E	D	G	P	L	N	S	R	A	I	S	P	W	R	Y
mIL-17E	85	E	L	D	R	D	L	N	R	V	P	Q	D	L	Y	H	A	R	C	L	C	P	H	C	V	S	L	Q	T	G	S	H	M	D	P	L	G	N	S	V	P	L	Y	H	N	Q	T	V	F	Y	R
hIL-17E	93	E	L	D	R	D	L	N	R	L	P	Q	D	L	Y	H	A	R	C	L	C	P	H	C	V	S	L	Q	T	G	S	H	M	D	P	R	G	N	S	E	L	L	Y	H	N	Q	T	V	F	Y	R
mIL-17E	135	R	P	C	H	G	E	E	G	T	H	R	R	Y	C	L	E	R	R	L	Y	R	V	S	L	A	C	V	C	V	R	P	R	V	M	A															
hIL-17E	143	R	P	C	H	G	E	K	G	T	H	K	G	Y	C	L	E	R	R	L	Y	R	V	S	L	A	C	V	C	V	R	P	R	V	M	G															

FIG. 53

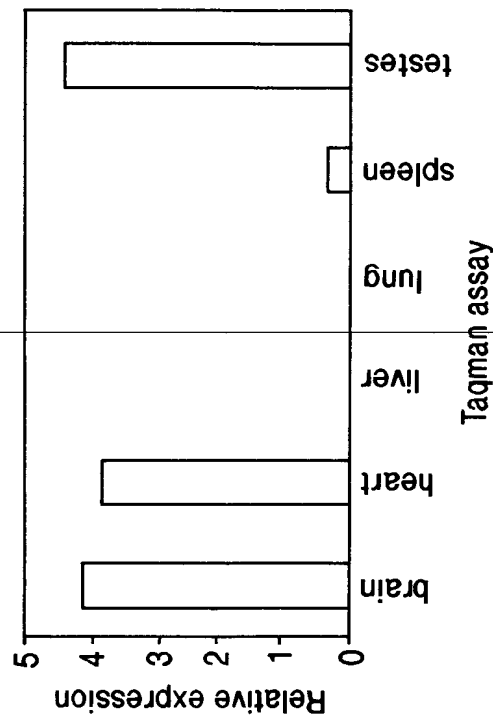
Tissue distribution of IL-17E



Human

IL-17E (PCR then probed with cDNA)

FIG. 54B



Mouse

FIG. 54A

mIL-17E transgenics are growth retarded

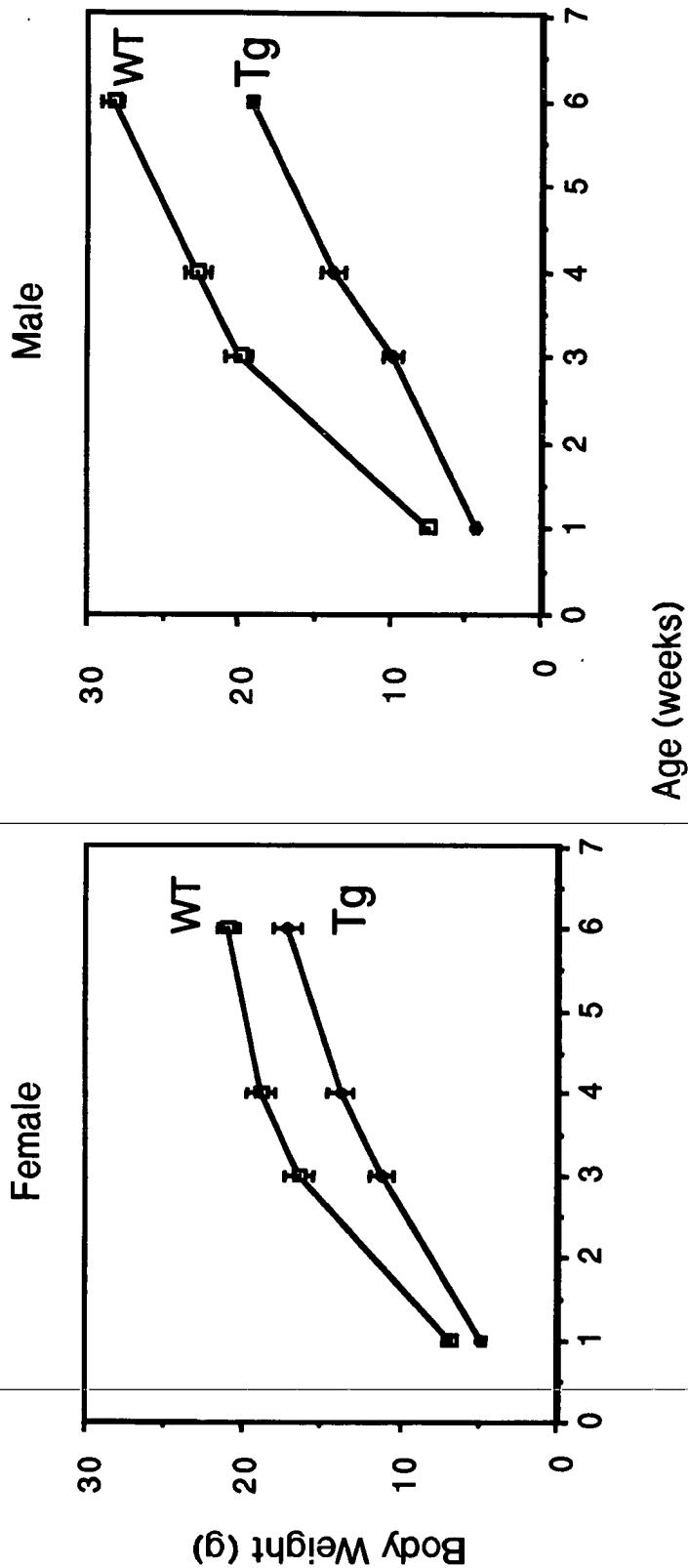
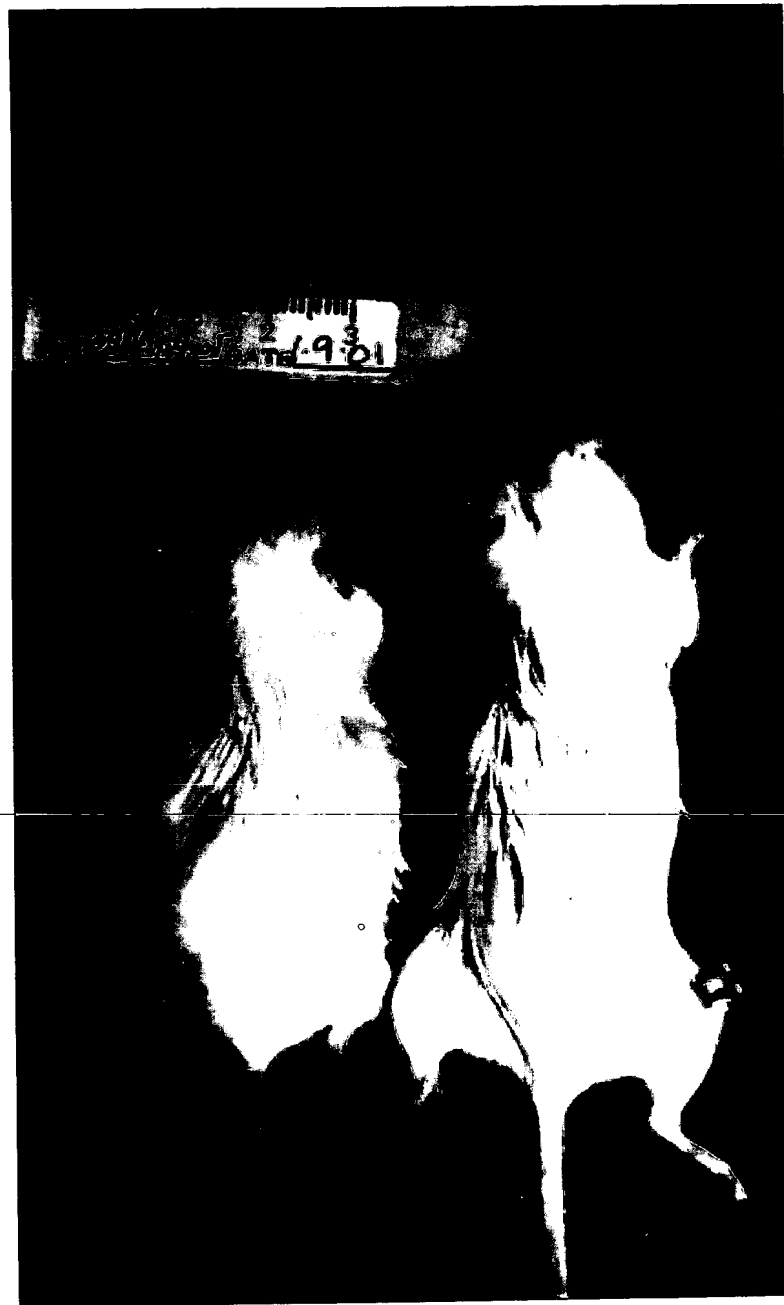


FIG. 55

IL-17E transgenics are jaundiced by 6 weeks of age



TG

WT

FIG. 56

mIL-17E transgenics have elevated total bilirubin and liver enzymes

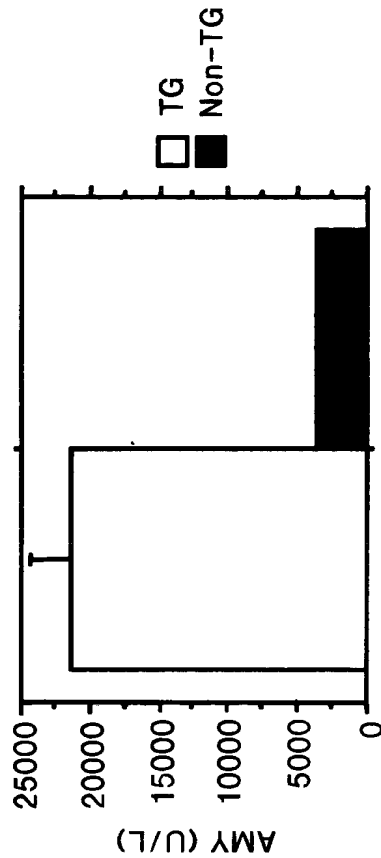
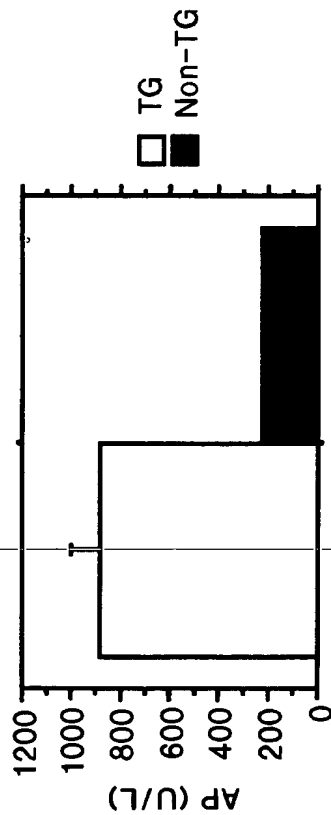
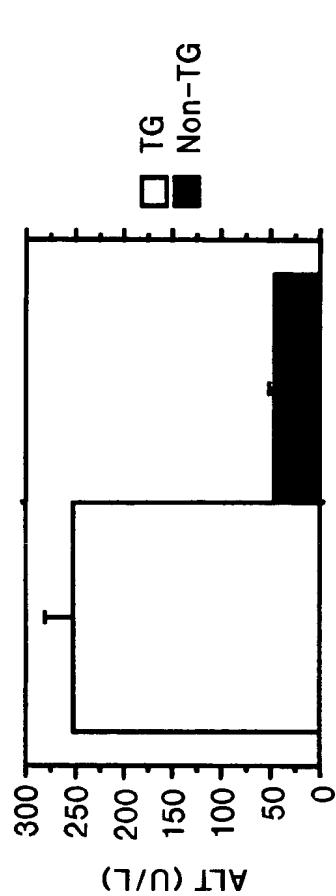
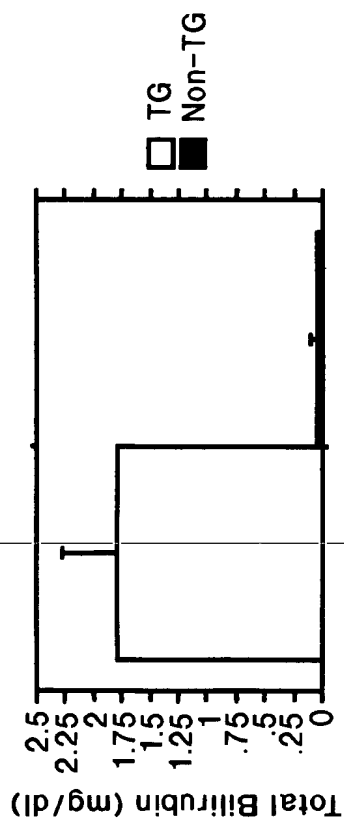


FIG. 57

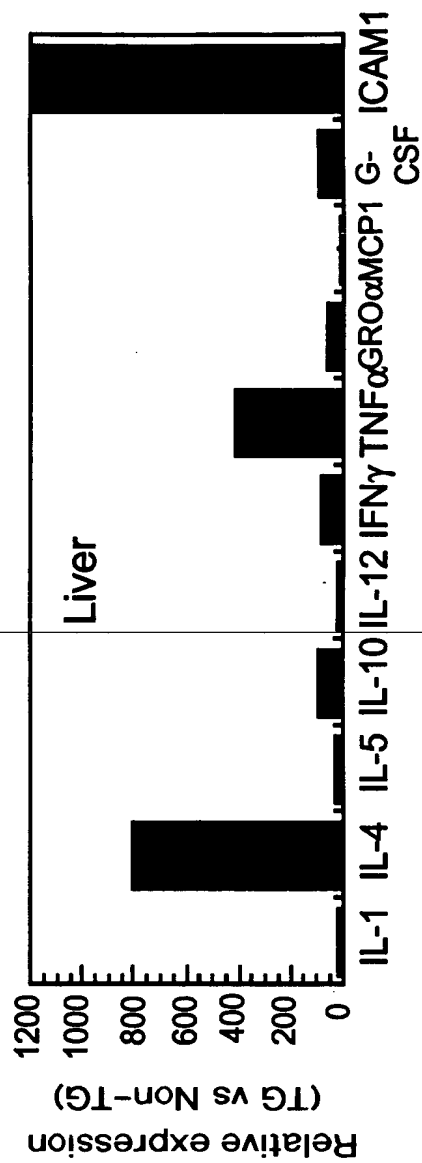


FIG. 58A

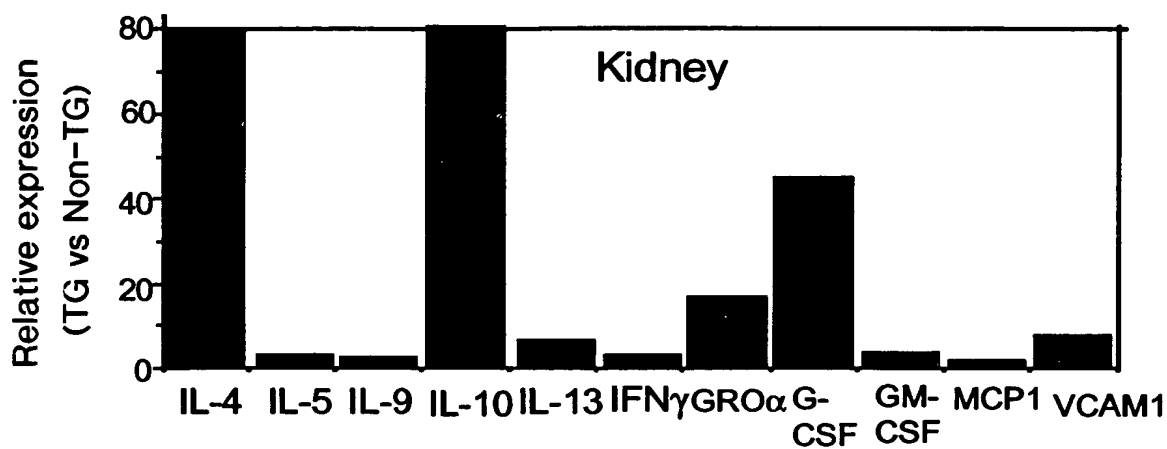


FIG. 58B

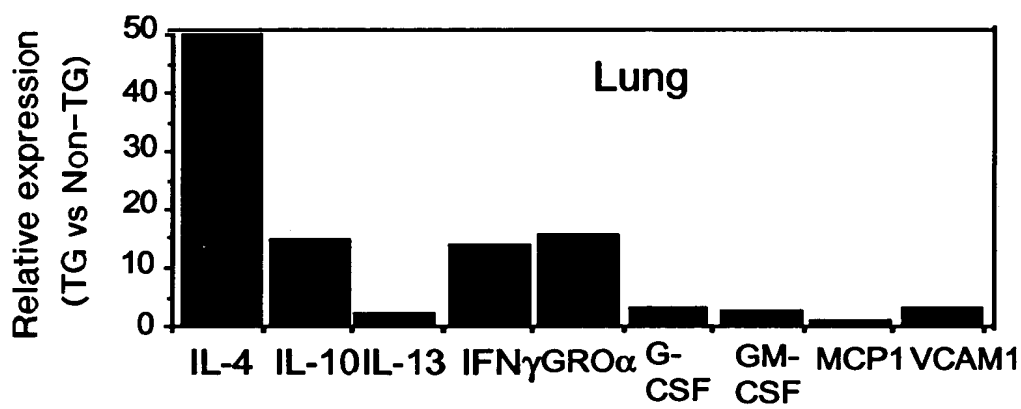
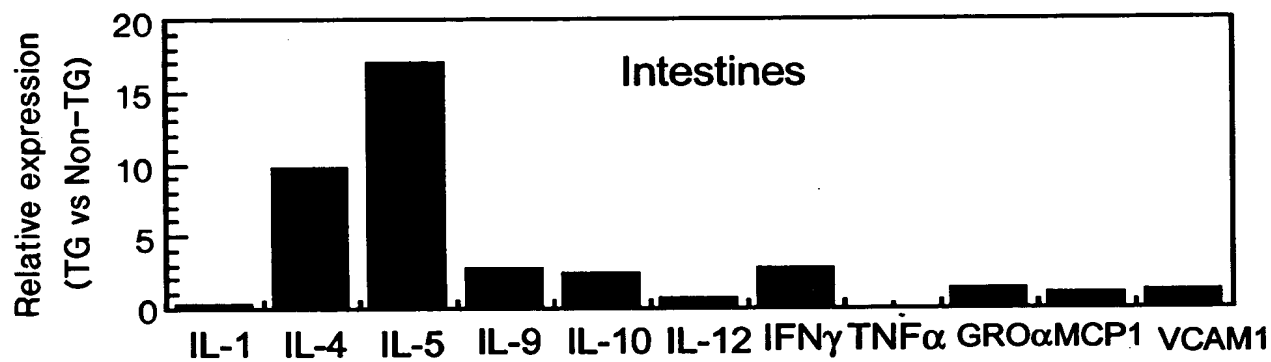
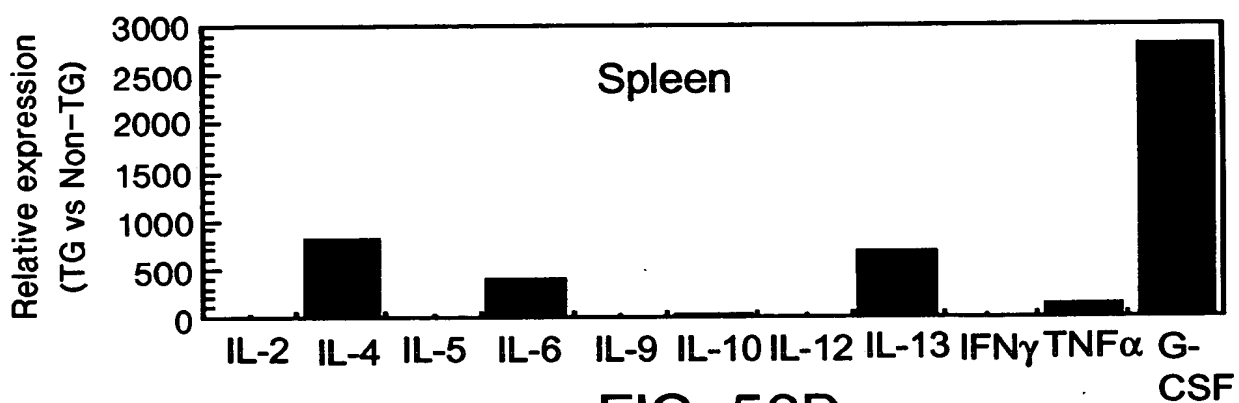


FIG. 58C

Gene profiling of IL-17E transgenics (Taqman)



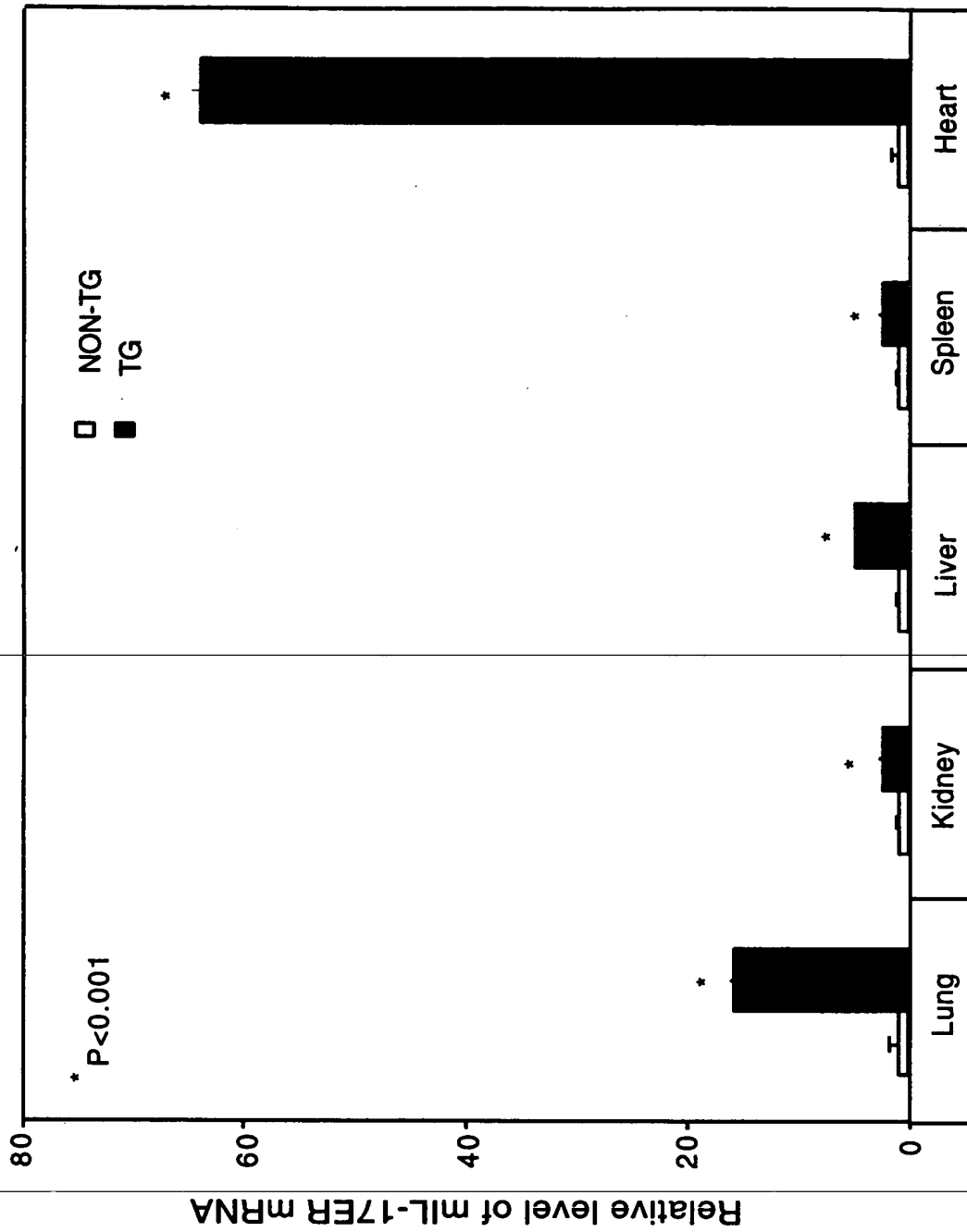


FIG. 59

Elevated serum IL-5, IL-13 and TNF α
in mIL-17E transgenics

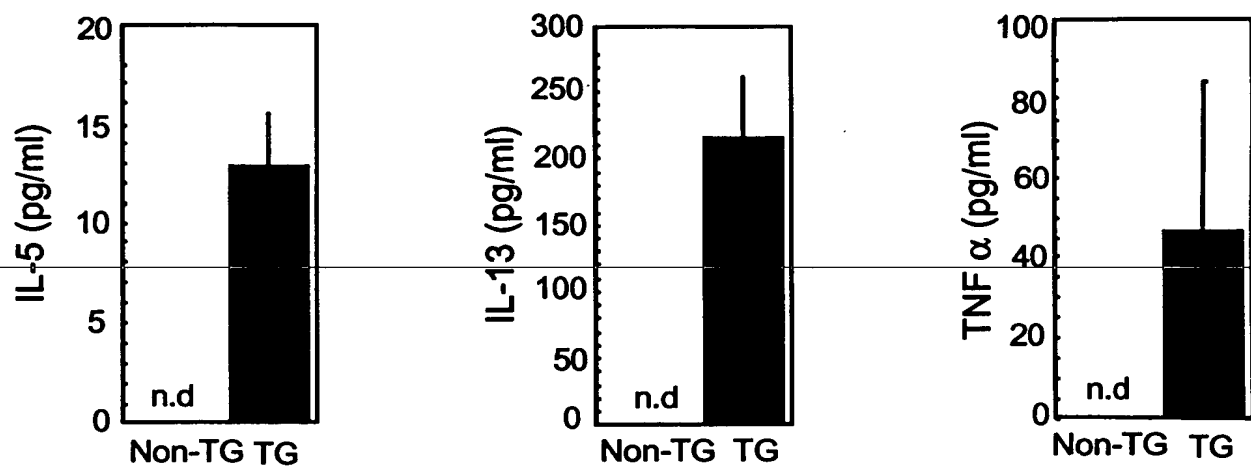


FIG. 60

Serum IgE and IgG1, but not IgG2a is elevated
in mIL-17E transgenics

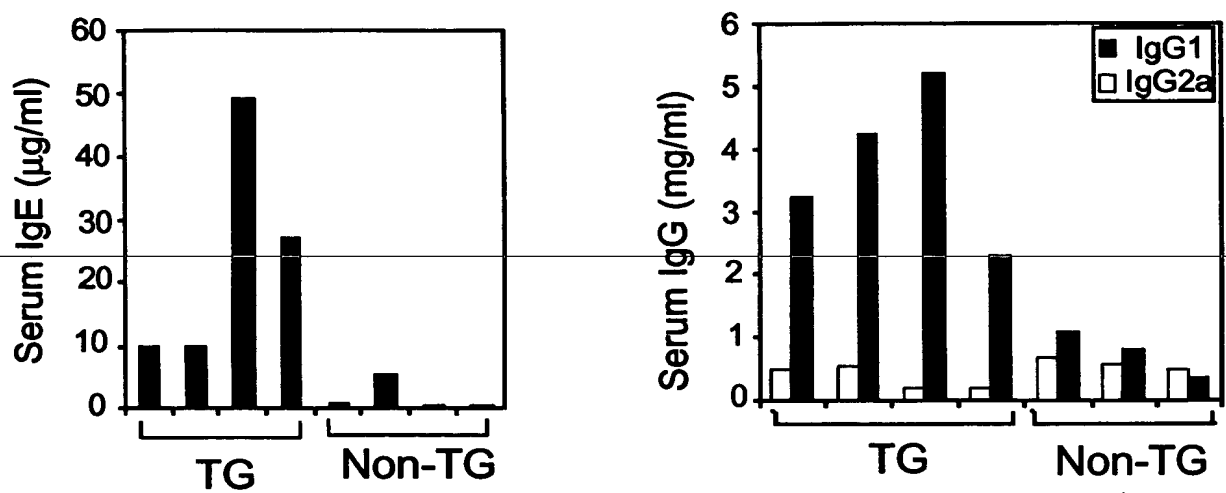


FIG. 61

Neutrophilia in mIL-17E transgenics
(8 wks, PBMC by FACS)

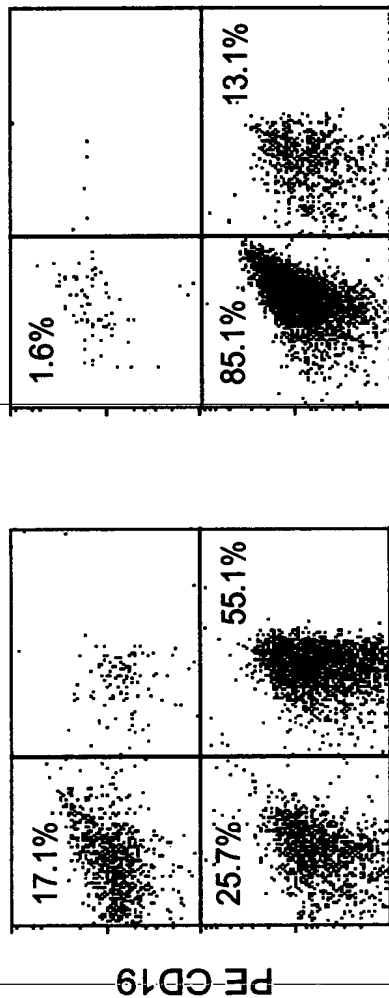


FIG. 62A

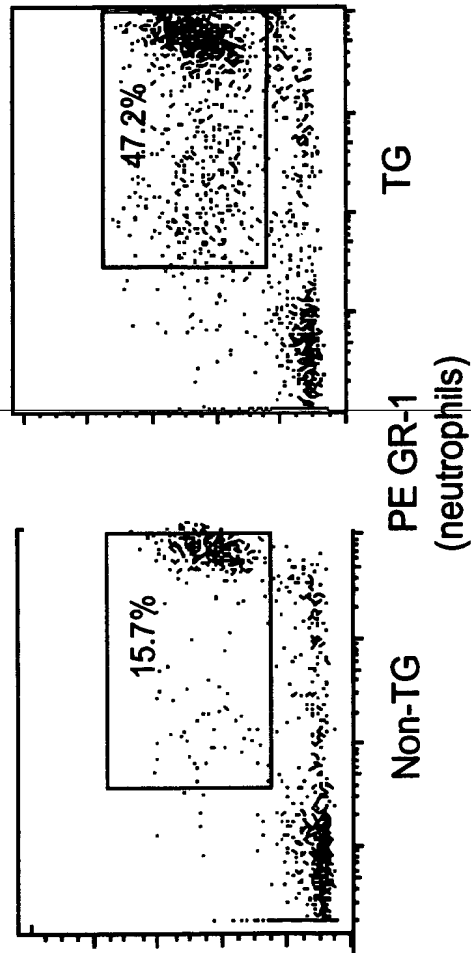


FIG. 62B

Neutrophilia and eosinophilia in mIL-17E
transgenics (hematology)

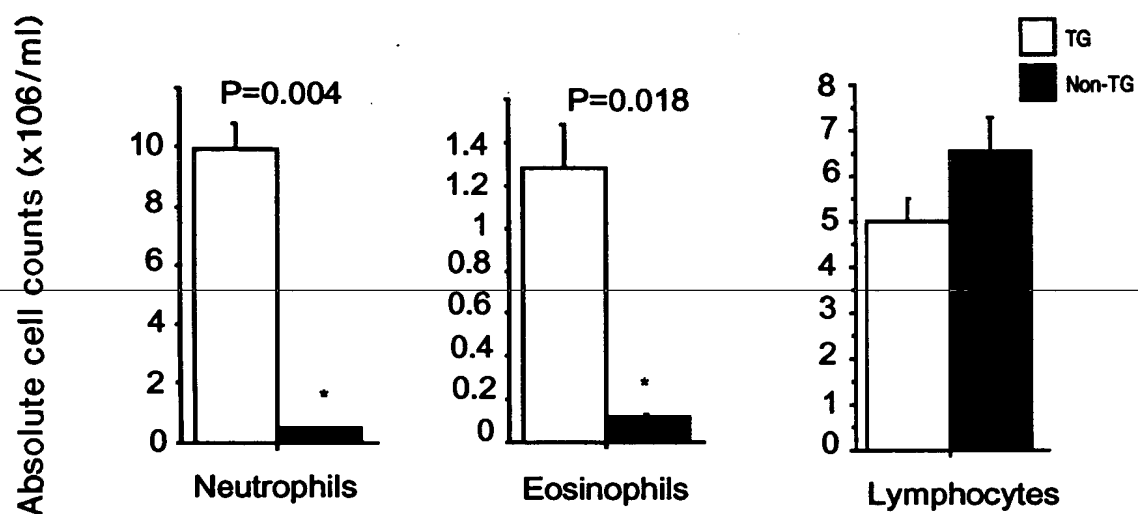


FIG. 63

G-CSF is elevated in
mIL-17E transgenics

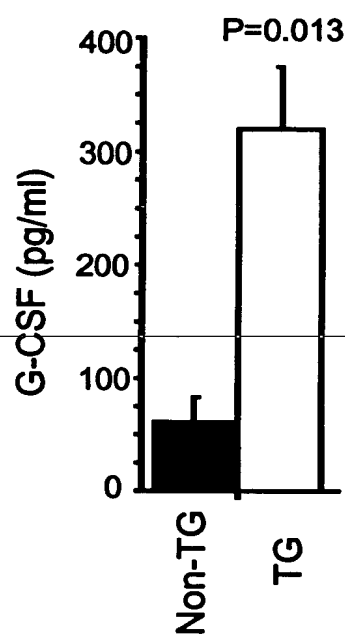


FIG. 64

IL-17E induces production of G-CSF in vitro

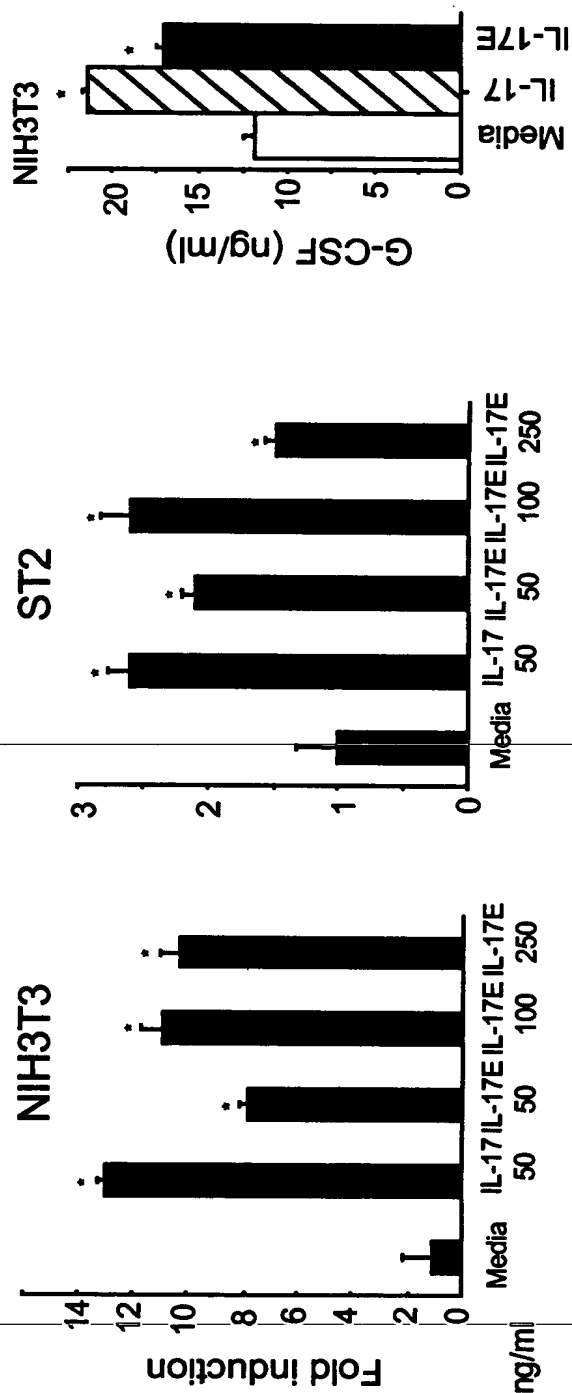


FIG. 65



FIG. 66A



FIG. 66B

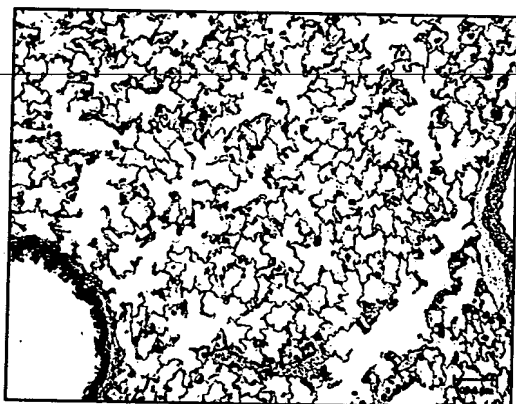


FIG. 66C

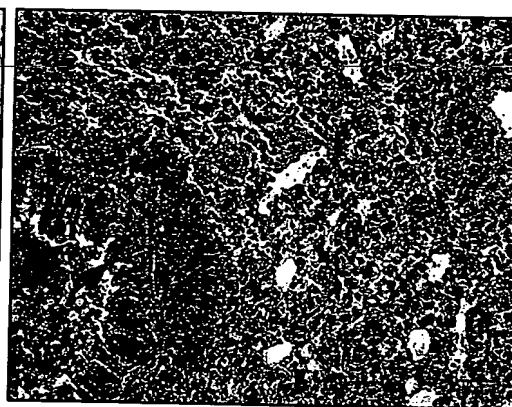


FIG. 66D